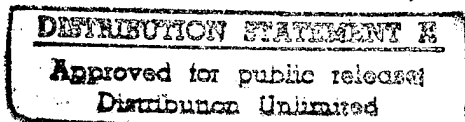




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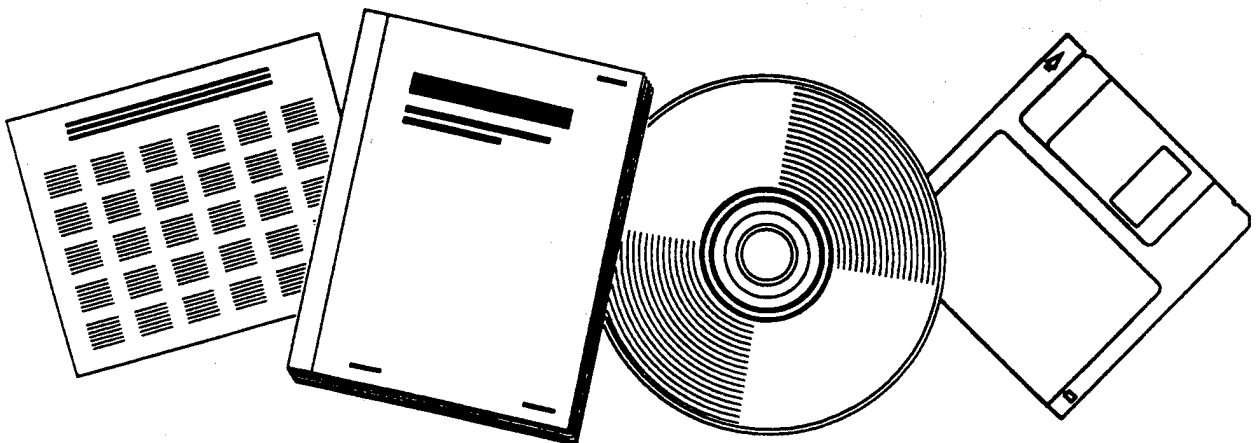
RESEARCH, DEVELOPMENT, TEST AND EVALUATION (R.T.D. & E) PROGRAMS (R-1) DEPARTMENT OF DEFENSE BUDGET FOR FISCAL YEAR 1987



U.S. DEPARTMENT OF DEFENSE
WASHINGTON, DC

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Preface

The R.D.T. & E. Programs (R-1) exhibit is derived from and consistent with the DoD Five Year Defense Program R.D.T. & E. Annex data base.

The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmission by the President of the Budget of the United States Government. It is accompanied by an automated data base submission to the House Committee on Administration for input to the House Information System. An unclassified version is provided to OASD(PA) for use by non-DoD activities.

Office of the Assistant Secretary of Defense
Comptroller

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RD&E PROGRAMS (R-1)

BUDGET ESTIMATE DISTRIBUTION:

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PRESIDENT'S FEBRUARY BUDGET DISTRIBUTION:

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DEPARTMENT OF DEFENSE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

SUMMARY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

	FY 1985	FY 1986	FY 1987	FY 1988
SUMMARY BY APPROPRIATION				
RESEARCH DEVELOPMENT TEST + EVAL, ARMY	4,305,185	4,841,472	5,550,300	6,305,634
RESEARCH DEVELOPMENT TEST + EVAL, NAVY	9,070,906	10,076,939	10,586,800	10,603,599
RESEARCH DEVELOPMENT TEST + EVAL, AF	13,283,491	13,787,408	17,275,400	17,857,039
RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	4,150,927	6,642,386	8,364,300	9,240,914
DIRECTOR OF TEST + EVALUATION, DEFENSE	59,000	118,500	141,800	97,878
DIRECTOR OF OPERATIONAL TEST + EVALUATION			11,300	11,735
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	30,869,509	35,466,705	41,929,900	44,116,799
SUMMARY RECAP OF RESEARCH CATEGORIES				
RESEARCH	852,324	1,024,193	985,836	1,079,549
EXPLORATORY DEVELOPMENT	2,268,362	2,424,852	2,599,443	2,839,032
ADVANCED DEVELOPMENT	6,742,964	9,875,290	12,775,832	14,242,927
ENGINEERING DEVELOPMENT	10,490,848	10,149,287	11,717,486	12,061,548
MANAGEMENT AND SUPPORT	2,516,641	2,611,094	2,972,784	3,198,996
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	22,871,139	26,084,716	31,051,381	33,422,052
OPERATIONAL SYSTEMS DEVELOPMENT	7,998,370	9,381,989	10,878,519	10,694,747
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	30,869,509	35,466,705	41,929,900	44,116,799

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DEPARTMENT OF DEFENSE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

SUMMARY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

	FY 1985	FY 1986	FY 1987	FY 1988
SUMMARY RECAP OF BUDGET ACTIVITIES				
TECHNOLOGY BASE	3,120,686	3,449,045	3,585,279	3,918,581
ADVANCED TECHNOLOGY DEVELOPMENT	2,750,565	4,234,299	6,574,691	7,400,989
STRATEGIC PROGRAMS	8,168,999	8,054,403	9,429,556	9,990,707
TACTICAL PROGRAMS	9,062,224	10,901,036	12,671,463	13,193,710
INTELLIGENCE AND COMMUNICATIONS	3,953,010	4,703,389	5,102,892	5,045,873
DEFENSEWIDE MISSION SUPPORT	3,814,025	4,124,533	4,566,019	4,566,939
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	30,869,509	35,466,705	41,929,900	44,116,799

SUMMARY RECAP OF FYDP PROGRAMS

STRATEGIC FORCES	777,449	1,109,359	1,392,391	1,552,308
GENERAL PURPOSE FORCES	1,931,463	2,016,414	2,578,950	2,457,544
INTELLIGENCE AND COMMUNICATIONS	5,025,413	5,931,112	6,589,038	6,367,627
AIRLIFT/SEALIFT	36,016	80,208	112,161	101,347
GUARD AND RESERVE			4,531	5,056
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	22,871,139	26,084,716	31,051,381	33,422,052
CENTRAL SUPPLY AND MAINTENANCE	212,896	235,229	192,177	200,663
TRAINING MEDICAL AND OTHER	5,208	5,165	4,788	4,367
ADMINISTRATION AND ASSOC ACTIVITIES	5,200			962
SUPPORT OF OTHER NATIONS	4,725	4,502	4,483	4,873
TOTAL RESEARCH, DEVELOPMENT, TEST & EVALUATION	30,869,509	35,466,705	41,929,900	44,116,799

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DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

SUMMARY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

	FY 1985	FY 1986	FY 1987	FY 1988
SUMMARY RECAP OF RESEARCH CATEGORIES				
RESEARCH	232,671	264,701	243,994	264,431
EXPLORATORY DEVELOPMENT	571,603	566,496	701,923	780,654
ADVANCED DEVELOPMENT	1,023,013	1,286,352	1,402,456	1,596,500
ENGINEERING DEVELOPMENT	984,466	1,182,096	1,305,610	1,548,763
MANAGEMENT AND SUPPORT	834,061	924,991	1,133,493	1,214,669
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	3,645,814	4,224,636	4,787,476	5,405,017
OPERATIONAL SYSTEMS DEVELOPMENT	659,371	616,836	762,824	900,617
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY	4,305,185	4,841,472	5,550,300	6,305,634
SUMMARY RECAP OF BUDGET ACTIVITIES				
TECHNOLOGY BASE	804,274	831,197	945,917	1,045,085
ADVANCED TECHNOLOGY DEVELOPMENT	521,673	502,856	488,034	570,433
STRATEGIC PROGRAMS	220,502	226,877	278,987	318,447
TACTICAL PROGRAMS	1,726,341	2,083,622	2,440,170	2,940,527
INTELLIGENCE AND COMMUNICATIONS	61,086	97,770	130,420	141,690
DEFENSEWIDE MISSION SUPPORT	971,309	1,099,150	1,266,772	1,289,452
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY	4,305,185	4,841,472	5,550,300	6,305,634
SUMMARY RECAP OF FYDP PROGRAMS				
STRATEGIC FORCES	193,428	196,337	249,430	243,730
GENERAL PURPOSE FORCES	302,198	218,071	341,919	427,323
INTELLIGENCE AND COMMUNICATIONS	71,389	111,477	142,370	199,419
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	3,645,814	4,224,636	4,787,476	5,405,017
CENTRAL SUPPLY AND MAINTENANCE	92,356	90,951	29,105	30,145
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY	4,305,185	4,841,472	5,550,300	6,305,634

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DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
THOUSANDS OF DOLLARS						E
1	61101A IN-HOUSE LAB INDEPENDENT RESEARCH	1	24,322	25,105	19,020	20,277 U
2	61102A DEFENSE RESEARCH SCIENCES	1	208,349	233,544	212,594	219,548 U
3	61103A UNIVERSITY RESEARCH INITIATIVES	1		6,052	12,380	24,606 U
4	62105A MATERIALS	1	12,715	12,481	16,346	18,920 U
5	62111A ATMOSPHERIC INVESTIGATIONS	1	5,575	5,498	11,563	13,686 U
6	62120A NUCLEAR WEAPONS EFFECTS/FLUIDICS	1	12,476	22,488	47,797	54,152 U
7	62122A SURVIVABILITY ENHANCEMENT	1				
8	62201A AIRCRAFT WEAPONS TECHNOLOGY	1	3,594	3,307	1,416	1,724 U
9	62202A AIRCRAFT AVIONICS TECHNOLOGY	1	7,988	9,083	11,102	12,083 U
10	62209A AERONAUTICAL TECHNOLOGY	1	23,713	27,451	34,814	43,629 U
11	62210A AIRDROP TECHNOLOGY	1	1,749	2,053	2,900	3,094 U
12	62303A MISSILE TECHNOLOGY	1	35,027	28,649	24,587	30,530 U
13	62307A LASER WEAPON TECHNOLOGY	1	22,007	11,133	11,228	14,195 U
14	62601A TANK AND AUTOMOTIVE TECHNOLOGY	1	24,547	22,128	25,711	29,452 U
15	62603A LARGE CALIBER AND NUCLEAR TECHNOLOGY	1	37,127	22,442		U
16	62617A SMALL CAL AND FIRE CNTRL TECHNOLOGY	1	9,691	11,561		U
17	62618A BALLISTICS TECHNOLOGY	1	49,862	43,413	46,155	48,288 U
18	62622A CHEMICAL AND SMOKE MUNITIONS	1	15,909	14,083	23,228	26,242 U
19	62623A JOINT SERVICE SMALL ARMS PROGRAM	1	6,537	5,493	11,119	11,163 U
20	62624A WEAPONS & MUNITIONS TECHNOLOGY	1			28,663	27,235 U
21	62701A TACTICAL TELEPROCESSING TECHNOLOGY	1	15,020	17,213	26,894	29,260 U

DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

LINE NO	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS			
				FY 1985	FY 1986	FY 1987	FY 1988 C E
22	62703A	COMBAT SURVEILL TARGET ACQUIS & IDENT	1	6,759	4,516	7,766	8,021 U
23	62704A	MIL ENVIRONMENTAL CRITERIA DEV	1	2,900	3,067	3,413	3,932 U
24	62705A	ELECTRONICS AND ELECTRONIC DEVICES	1	20,056	21,558	24,039	26,414 U
25	62706A	CHEM BIOLOGICAL DEF / GEN INVEST	1	36,852	39,568	39,656	44,310 U
26	62707A	MAPPING - GEODESY	1	7,994	9,000	9,678	10,815 U
27	62709A	NIGHT VISION INVESTIGATIONS	1	18,007	20,840	28,056	29,890 U
28	62715A	TACTICAL ELECTRONIC WARFARE TECHNOLOGY	1	10,290			
29	62716A	HUMAN FACTORS ENG SYS DEV	1	10,987	13,993	17,811	20,127 U
30	62717A	HUMAN PERFORMANCE EFFECT/SIMULATION	1	5,156	5,228	13,113	14,760 U
31	62719A	MOBILITY AND WEAPONS EFFECTS TECH	1	9,217	12,265	14,879	15,929 U
32	62720A	ENVIRONMENTAL QUALITY TECH	1	11,043	8,930	8,760	9,213 U
33	62722A	MANPOWER/PERSONNEL/TRAINING	1	6,732	7,533	4,730	4,703 U
34	62723A	CLOTHING EQUIP AND SHELTER TECH	1	7,932	8,996	18,012	17,059 U
35	62724A	JT SVC FOOD SYS TECH	1	5,943	5,960	5,162	5,915 U
36	62725A	COMPUTER AND INFORMATION SCIENCE	1	2,207	2,198	2,574	2,581 U
37	62727A	NON-SYSTEM TRAINING DEVICES	1	5,180	5,042	4,397	6,874 U
38	62730A	COLD REGIONS ENGINEERING TECHNOLOGY	1	7,423	6,990	4,308	5,025 U
39	62731A	MILITARY FACILITIES ENGINEERING TECHNOLOGY	1	5,347	5,345	5,764	6,208 U
40	62733A	MOBILITY EQUIPMENT TECHNOLOGY	1	13,365	13,708	15,914	17,848 U
41	62734A	MED DEFENSE AGAINST CHEM AGENTS	1	33,265	31,101	34,613	39,889 U
42	62746A	TACTICAL SOFTWARE TECHNOLOGY	1		6,433	10,794	15,331 U

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DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				S E C
			FY 1985	FY 1986	FY 1987	FY 1988 C	
43	62770A MILITARY DISEASE HAZARDS TECH	1	23,949	27,372	48,677	51,489	U
44	62772A COMBAT CASUALTY CARE TECH	1	9,610	8,913	10,376	10,439	U
45	62775A COMBAT MAXILLOFACIAL INJURY	1	3,610	2,166	2,813	3,714	U
46	62777A SYSTEMS HEALTH HAZARD PREVENT TECH	1	22,114	19,428	22,223	23,130	U
47	62781A ENERGY TECH APPL FOR MILITARY FACIL	1	2,128	2,259	2,035	2,295	U
	TECHNOLOGY BASE		804,274	831,197	945,917	1,045,085	
48	63102A MATERIELS AND STRUCTURES	2	8,214	14,289	20,154	17,772	U
49	63104A FUELS AND LUBRICANTS	2	4,479	3,358	3,527	4,186	U
50	63105A ACQUIRED IMMUNE DEFICIENCY SYNDROME RESEARCH	2		39,516			U
51	63201A AIRCRAFT POWER PLANTS AND PROPULSION	2	20,240	19,602	20,365	26,145	U
52	63206A AIRCRAFT WEAPONS	2	11,857	6,877	10,349	10,257	U
53	63207A AIRCRAFT AVIONICS EQUIPMENT	2	20,250	10,838	4,408	8,754	U
54	63209A AIR MOBILITY SUPPORT	2	7,782				U
55	63211A ROTARY WING CONTROLS/ROTORS/STRUCTURES	2	19,931	13,379	23,560	27,065	U
56	63216A SYNTHETIC FLIGHT SIMULATOR DEVELOPMENT	2	9,189	12,462	11,126	11,581	U
57	63218A AIRDROP ADVANCEMENT	2	3,575	3,819	4,547	3,628	U
58	63221A NOE AVIATION AND NAVIGATION EQUIPMENT	2	2,900	3,052	2,370	5,019	U
59	63255A OPERATIONAL ENHANCEMENTS	2			2,637	4,370	U
60	63306A TERMINALLY GUIDED PROJECTILES	2	7,484	14,394	27,939	50,690	U
61	63313A MSL/ROCKET COMPONENTS	2	25,483	18,685	37,881	33,647	U
62	63322A BATTLEFIELD ENVIRONMENT SIMULATION	2		988	7,083	8,508	U

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DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	C
63	63324A ARMY DEVELOPMENT AND EMPLOYMENT ACTIVITY	2	38,900	9,588	11,411	15,393	U
64	63602A ADVANCED LAND MOB SYSTEMS CONCEPTS	2	13,152	16,286	10,890	19,886	U
65	63606A LANDMINE WARFARE/BARRIER DEV	2	13,222	11,184	11,344	13,353	U
66	63607A JOINT SERVICE SMALL ARMS PROGRAM	2	6,874	3,474	9,480	7,029	U
67	63621A COMBAT VEHICLE PROPULSION SYS	2	15,244	11,864	9,766	13,791	U
68	63631A CMBT VEH TURRET AND CHASSIS SUBSYS	2	20,921	16,912	18,895	22,997	U
69	63636A COMBAT VEHICLE ARMOR/ANTI-ARMOR	2	52,837	11,241	9,411	11,229	U
70	63637A ADV PROPULSION/LAUNCH SYS FOR MUN	2	7,902	8,134	5,887	9,831	U
71	63638A NUCLEAR VULNERABILITY ADV TECHNOLOGY	2			6,614	6,451	U
72	63640A AMMUNITION LOGISTICS	2		1,482	2,170	5,415	U
73	63710A NIGHT VISION ADVANCED DEVELOPMENT	2	30,511	31,495	29,080	36,813	U
74	63719A SPECIAL PURPOSE DETECTORS	2			2,961	3,939	U
75	63723A TACTICAL C4 TECHNOLOGY INTEGRATION	2		24,357	13,335	14,567	U
76	63725A REMOTELY PILOTED VEHICLES/DRONES	2	13,408				U
77	63727A SPACE TECHNOLOGY INTEGRATION	2			987	985	U
78	63731A MANPOWER AND PERSONNEL	2	11,349	13,882	14,204	16,323	U
79	63734A ENGINEERING SYSTEMS	2	1,271	1,927	5,393	6,450	U
80	63736A HUMAN FACTORS ENGINEERING APPLICATIONS	2			2,458	2,974	U
81	63737A ANTI-RADIATION MSL COUNTER MEASURES	2	4,441	4,890			
82	63739A HUMAN FACTORS IN TNG/OPER EFFECT	2	9,684	8,974	9,191	10,377	U
83	63742A ADV ELECTRONIC DEVICES DEV	2	8,748	9,635	5,537	5,141	U

DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	THOUSANDS OF DOLLARS
84	63743A EDUCATION AND TRAINING	2	10,075	11,787	7,033	9,028	U
85	63744A TRAINING SIMULATION	2	7,600	5,459	6,618	7,667	U
86	63748A TEST MEASUREMENT & DIAGNOSTIC EQUIPMENT DEVEL	2	4,918	5,159	7,174	8,902	U
87	63749A TECHNICAL VULNERABILITY REDUCTION	2	9,103	4,299	3,300	3,718	U
88	63752A DEMILITARIZATION CONCEPTS	2	8,312	9,463			U
89	63756A DOD SOFTWARE INITIATIVES (STARS)	2	12,552	41,492			U
90	63758A ARMY BATTLEFIELD TECHNOLOGY INTEGRATION	2		11,856	12,385	12,715	U
91	63759A CB DEF/SMK ADV TECHNOLOGY DEMONSTRATIONS	2	5,177	3,009	7,484	3,564	U
92	63761A ELEC WRFR VULN/SUSCEP TECH SUPPORT	2	15,845	14,612			
93	63762A EW FEASIBILITY DEVELOPMENT	2	9,652	7,157			
94	63763A NONSYSTEMS MEDICAL MATERIAL DEVELOPMENT	2	14,644	16,026	19,492	23,077	U
95	63764A MEDICAL CHEMICAL DEFENSE LIFE SUPPORT	2	33,897	22,353	17,390	17,040	U
96	63771A ADVANCED TACTICAL COMMUNICATIONS TECHNOLOGY	2			1,461	1,502	U
97	63772A ADV TACTICAL COMPUTER SCIENCE & TECHNOLOGY	2			13,674	12,288	U
98	63773A BATTLEFIELD SUSTAINMENT	2			3,342	4,906	U
	ADVANCED TECHNOLOGY DEVELOPMENT		521,673	502,856	488,034	570,433	
99	12814A SPECIAL PROGRAMS	3					
100	12821A CLASSIFIED PROGRAM	3					

DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	THOUSANDS OF DOLLARS
101	33152A WORLDWIDE MILITARY CMD&CNT SYS INF SYS	3	27,074	30,540	29,557	74,717	U
	STRATEGIC PROGRAMS		220,502	226,877	278,987	318,447	
102	63209A AIR MOBILITY SUPPORT	4		8,281	10,848	5,528	U
103	63215A JOINT SURVIVABILITY INVESTIGATIONS	4	985	890	735	1,045	U
104	63217A GREATER SLOPE	4	33,998				U
105	63220A ADVANCED ROTOCRAFT TECHNOLOGY INTEGRATION/LHX	4	51,575	44,311	44,420		U
106	63225A AIRDROP EQUIPMENT SYSTEMS	4		988	1,256	1,929	U
107	63302A ANTI-TACTICAL MISSILE SYSTEM	4	29,275	61,315	38,635	40,830	U
108	63303A SURF-TO-SURF MSL ROCKET SYS	4	24,509	30,253	42,681	52,185	U
109	63323A LIGHT WEIGHT AIR DEFENSE SYSTEM	4			21,717	38,016	U
110	63604A NUCLEAR MUNITIONS AND RADIACS	4	5,226	7,833			U
111	63608A WEAPONS AND AMMUNITION	4		789	173		U
112	63612A ADVANCED ANTI-TANK WEAPON SYSTEM (MEDIUM)	4	6,003	60,338	48,735	141,820	U
113	63615A LETHAL CHEMICAL MUNITIONS CONCEPTS	4	14,957	20,141	25,307	15,660	U
114	63619A LANDMINE/BARRIER SYS	4	15,683	22,777	10,477	8,828	U
115	63627A SMOKE MUNITIONS AND MATERIEL CONCEPTS	4	3,409	8,497	3,189	7,709	U
116	63628A ARTILLERY/MORTAR AMMO DEVELOPMENT	4	9,169	10,151	17,210	12,841	U
117	63633A TANK/FIGHTING VEHICLE AMMO DEVELOPMENT	4	10,408	5,665			U
118	63635A MOBILE PROTECTED GUN	4				16,824	U
119	63639A ARMAMENT ENHANCEMENT INITIATIVE (AEI)	4					
120	63641A PROGRAM 292	4					

DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				S E C
			FY 1985	FY 1986	FY 1987	FY 1988	
121	63702A ELECTRIC POWER SOURCES	4	5,537	11,154	8,017	15,109	U
122	63705A PHYSICAL SECURITY	4	1,800	4,397	2,339	3,274	U
123	63706A IDENTIFICATION-FRIEND OR FOE DEVELOPMENTS	4	13,670	18,479	20,373	5,678	U
124	63707A COMMUNICATIONS DEVELOPMENT	4	4,965	2,905	2,673	3,652	U
125	63711A AIRCRAFT SURVIVABILITY EQUIPMENT	4	3,090	8,128	4,588	18,170	U
126	63713A ARMY DATA DISTRIBUTION SYSTEM	4	23,949	37,266	42,122	22,605	U
127	63718A ELECT WRFR VULNERABILITY/SUCEPTIBILITY	4	26,465	22,633	16,912	22,124	U
128	63720A CHEMICAL/BIO DETECTION WARM/SAMP MAT CONCEPTS	4	35,235	15,008		16,019	U
129	63721A CML BIO PROTECTIVE MATERIEL CONCEPTS	4	3,759	9,378	8,045	4,058	U
130	63723A MISSION CRITICAL SOFTWARE	4	16,601				U
131	63725A REMOTELY PILOTED VEHICLES/DRONES	4		259	4,917	19,973	U
132	63726A COMBAT SUPPORT EQUIPMENT	4	15,011	25,148	24,285	14,180	U
133	63730A TACTICAL SURVEILLANCE SYSTEM	4		21,441			
134	63732A COMBAT MEDICAL MATERIAL	4	6,336	9,271	8,189	11,396	U
135	63740A SHORT RANGE AIR DEFENSE COMMAND AND CONTROL	4		10,000	16,189	15,265	U
136	63741A METEOROLOGIC EQUIPMENT DEVELOPMENT	4				2,192	U
137	63745A TAC ELECTRONIC SPT MEASURE SYS	4	5,083	4,807			
138	63746A SINGLE CHAN GND & ABN RADIO SYS (SINGGARS) AD	4	3,519	2,240			U
139	63747A SOLDIER SUPPORT/SURVIVABILITY	4	3,428	4,992	4,722	6,196	U
140	63750A DRUG AND VACCINE DEVELOPMENT	4	14,721	16,745	17,077	16,474	U
141	63751A MEDICAL DEFENSE AGAINST CHEM WARFARE	4	21,820	30,652	26,449	29,502	U

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM

[illegible]

142	63754A	CLASSIFIED PROGRAM (ADV)	4
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143	63755A	TACTICAL ELECTRONIC COUNTERMEASURES SYSTEMS	4	44, 957	78, 091
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144	63757A	AIR DEFENSE ALTERNATIVES	4	30.504	103.944	188.995 U
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145	63766A	TACTICAL	ELECTRONIC SURVEILLANCE SYS	4	9 239	6 735
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146	63767A	COMBAT SERVICE SUPPORT CENTER	SVS	4	100	060	1608	R 318 II
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[illegible][illegible][illegible][illegible]

133	0421/A	SINIHETIC FLIGHT TRAINING SYSTEMS	4	17,242	7,073	10,000	3,043 0
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154	64218A	AIRDRUP EQUIP DEVELOPMENT	4	4,036	3,113	3,281	3,848 0
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155	64220A	ARMY HELICOPTER IMPROVEMENT PROG	4	25,199	6,720
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156	64223A	ADVANCED TECHNOLOGY LIGHT HELICOPTER SERIES	4	194,445 U
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157	64268A	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM 4	11,046	15,963
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158	64306A	STINGER	4	5,000	23,298	6,252
						U

159	64307A	PATRIOT AIR DEFENSE MISSILE SYSTEM	4	61,072	50,832
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160	64310A	HELIBORNE	MISSILE-HELLFIRE	4	454	4, 945	U
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161	64313A	GRASS BLADE	4	15,646	10,747	6,698	13,278 U
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162	64314A	MULTIPLE LAUNCH ROCKET SYSTEM	4	1,851	U
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DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
						THOUSANDS OF DOLLARS
163	64321A JOINT TACTICAL FUSION PROGRAM	4	76,880	155,209		
164	64324A JOINT TACTICAL MISSILE SYSTEM-ARMY (JTACMS-A)	4	76,378	128,426	88,197	97,719 U
165	64601A INFANTRY SUPPORT WEAPONS	4	27,202	29,113	26,044	5,773 U
166	64603A NUCLEAR MUNITIONS	4	11,985	18,074		
167	64604A MOBILITY	4		988	47,828	38,265 U
168	64608A INFANTRY WEAPONS AND AMMUNITION	4				2,237 U
169	64609A SMOKE MUNITIONS & MATERIEL	4	4,016	5,879	7,892	15,162 U
170	64610A LETHAL CHEMICAL MUNITIONS	4				20,879 U
171	64612A COUNTERMINE AND BARRIERS	4	2,607	7,929	9,728	16,037 U
172	64616A FIGHTING VEHICLE SYS	4	11,209			U
173	64619A LANDMINE WARFARE	4	8,176	7,818	16,755	11,813 U
174	64630A M1A1 DEVELOPMENT PROGRAM	4	56,803	18,717	3,798	U
175	64631A FIELD ARTILLERY AMMUNITION	4	7,967	27,442	107,275	84,479 U
176	64632A 105MM TANK AMMUNITION	4	146	1,574		U
177	64633A CACTUS PLANT	4				
178	64701A COMM ENGINEERING DEV	4	7,801	10,602	6,473	6,296 U
179	64702A JT TACTICAL INFORMATION DISTRIBUTION SYSTEM	4	22,764	12,105		U
180	64704A UNATTENDED GROUND SENSORS	4		494		U
181	64705A MODULAR INTEGRATED COMM AND NAVIGATION SYS	4	8,282	4,957	8,224	U
182	64706A RADIOLOGICAL DEFENSE EQUIPMENT	4	840	656		1,587 U
183	64709A IDENTIFICATION FRIEND OR FOE EQUIPMENT DEV	4	1,255		9,871	18,976 U

DEPARTMENT OF THE ARMY
FY 1967 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS			
			FY 1985	FY 1986	FY 1987	FY 1988 C E
184	64710A NIGHT VISION DEVICES	4	8,072	14,456	21,944	29,998 U
185	64711A AIRCRAFT SURVIVABILITY EQUIPMENT	4	14,043	21,662	19,934	17,743 U
186	64712A ARMY COMMAND AND CONTROL SYSTEMS ENGINEERING	4	11,858	9,247	6,113	11,058 U
187	64713A COMBAT FEEDING, CLOTHING AND EQUIPMENT	4	6,174	3,986	4,363	5,423 U
188	64714A TACTICAL ELECTRICAL POWER SOURCES	4	9,520	10,043	6,449	3,675 U
189	64717A GENERAL COMBAT SUPPORT	4	17,644	14,225	11,538	23,905 U
190	64718A PHYSICAL SECURITY	4	6,141	6,450	1,216	4,384 U
191	64722A EDUCATION AND TRAINING	4	6,899	6,531	4,378	7,273 U
192	64723A SPECIAL PURPOSE DETECTORS	4	3,315	3,217	1,181	961 U
193	64724A CML/BIO DETECTION WARNING & TRAINING MATERIEL	4	1,801	22,845	31,427	21,038 U
194	64725A CHEM BIO PROTECTIVE MATERIEL	4	17,932	15,524	10,550	27,631 U
195	64727A COMMAND AND CONTROL	4	16,166	5,757	548	550 U
196	64730A REMOTELY PILOTED VEHICLES	4	97,783	73,868	91,880	19,376 U
197	64735A INFRARED TERMINALLY GUIDED SUBMUNITION	4			27,114	29,546 U
198	64740A TACTICAL SURVEILLANCE SYSTEM	4	16,494	17,703		
199	64741A DIVISION AIR DEFENSE COMMAND AND CONTROL	4	18,399	32,640	82,065	116,214 U
200	64746A AUTOMATIC TEST EQUIPMENT DEVELOPMENT	4	7,923	17,915	12,325	13,589 U
201	64750A TACTICAL ELECTRONIC COUNTERMEASURES SYSTEMS	4	10,487	34,706		
202	64751A SINGLE CHAN GND & ABN RADIO SYS (SINCGARS) ED	4	7,013	12,735	13,922	6,709 U
203	64754A CLASSIFIED PROGRAM (ENG)	4				
204	64757A MEDICAL CHEMICAL DEFENSE LIFE SPT MAT	4	3,485	7,587	9,204	11,756 U

DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				S E C
			FY 1985	FY 1986	FY 1987	FY 1988 C	
205	64758A DRUG AND VACCINE DEVELOPMENT	4	8,988	10,371	10,563	10,845	U
206	64766A TACTICAL ELECTRONIC SURVEILLANCE SYS	4	18,121	11,134			
207	64770A JOINT SURVEILLANCE/TARGET ATTACK RADAR SYSTEM	4	50,000	43,288	27,882	6,197	U
208	64779A JT INTEROP OF TAC CMD & CONT SYS (JINTACCS)	4	37,238	6,337	7,719	8,485	U
209	65710A JT CB POINT OF CONTACT, TEST AND ASSESSMENT	4	2,345	2,373	6,249	6,541	U
210	23724A HV ANTI-TANK ASSAULT WPN SYS (TOW)	4	11,873	11,693	12,468	18,938	U
211	23726A ADV FIELD ARTILLERY TACTICAL DATA SYSTEM	4	29,242	19,765	40,444	67,205	U
212	23727A MED ANTI-TANK ASSAULT WEAPON - DRAGON	4		2,470			U
213	23730A CHAPARRAL	4	17,911	17,452	5,627		U
214	23731A SAM HAWK/HAWK IMP PROG	4	21,497	5,149	10,633	15,902	U
215	23735A COMBAT VEHICLE IMPROVEMENT PROGRAM	4	120,110	72,234	79,203	67,855	U
216	23739A AN/TSQ-73 MODIFICATIONS	4			9,671	13,887	U
217	23740A MANEUVER CONTROL SYSTEM	4	21,869	8,565	9,401	14,901	U
218	23741A PROD IMPR VULCAN AIR DEF SYS	4	142				U
219	23743A 155MM	4	27,712	25,474	35,726	50,164	U
220	23744A AIRCRAFT MODIFICATIONS	4	6,200				U
221	23745A EQUIPMENT UPGRADE	4	5,318	25,036	23,343	6,462	U
222	23746A PATRIOT PRODUCT IMPROVEMENT PROGRAM	4			40,221	50,248	U
223	23747A HELLFIRE PRODUCT IMPROVEMENT PROGRAM	4			11,947	25,301	U
224	23749A MLRS PRODUCT IMPROVEMENT PROGRAM	4				650	U
225	23751A SPECIAL OPERATIONS FORCES (SOF) EQUIPMENT	4			31,242	59,644	U

DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
						THOUSANDS OF DOLLARS
226	23752A AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM 4			14,592		15,977 U
227	28010A JOINT TACTICAL COMM PROGRAM (TRITAC) 4		40,324	30,233	17,401	20,189 U
228	33145A EUCOM C3 SYSTEMS 4		5,501	1,938	1,078	1,316 U
	TACTICAL PROGRAMS		1,726,341	2,083,622	2,440,170	2,940,527
229	63712A MAPPING AND GEODESY 5		3,532	3,186		U
230	64201A AIRCRAFT AVIONICS 5		1,246	2,212	2,493	2,482 U
231	64716A MAPPING AND GEODESY 5		3,863	2,227	11,473	9,122 U
232	64778A NAVSTAR GLOBAL POS SYS (USER EQ) 5		13,631	11,146	4,719	6,700 U
233	31307A FOREIGN SCIENCE AND TECHNOLOGY CENTER 5					
234	31318A HUMINT (CONTROLLED) 5					
235	31327A TECHNICAL RECONNAISSANCE AND SURVEILLANCE 5					
236	31329A EUCOM CSIC DESIGN 5					
237	31359A SPECIAL ARMY PROGRAMS 5					
238	33111A STRATEGIC ARMY COMMUNICATIONS (STARCOM) 5		1,062			U
239	33126A LONG-HAUL COMMUNICATIONS (DCS) 5		5,542	4,260	2,684	2,531 U
240	33142A SATCOM GROUND ENVIRONMENT 5		15,076	58,932	94,478	104,673 U

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DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	THOUSANDS OF DOLLARS	
241	33401A COMMUNICATIONS SECURITY (COMSEC)	5	11,398	8,993	7,280		9,187	U
	INTELLIGENCE AND COMMUNICATIONS		61,086	97,770	130,420		141,690	
242	63315A TARGET MISSILES	6	1,496	3,952	9,731		12,924	U
243	63738A NONSYSTEMS TRAINING DEVICES (NSTD) DEV	6	500	4,842	3,869		4,826	U
244	63790A NATO RESEARCH AND DEVELOPMENT	6		24,698	49,356			U
245	64715A NON-SYSTEM TNG DEVICES ENGR	6	32,922	47,122	46,260		32,062	U
246	64726A METEOROLOGICAL EQUIPMENT AND SYSTEMS	6	12,319	4,967	1,207		1,367	U
247	65201A AVIATION ENGINEERING FLIGHT ACTIVITY	6	10,100	9,708	13,217		13,669	U
248	65301A KWAJALEIN MISSILE RANGE	6	166,265	152,300	163,470		175,793	U
249	65502A SML BUSINESS INNOVATIVE RESEARCH	6	16,323					U
250	65702A SUPPORT OF DEVELOPMENT TESTING	6	48,493	56,404	50,444		59,969	U
251	65706A MATERIEL SYSTEMS ANALYSIS	6	15,746	16,043	16,966		17,932	U
252	65709A EXPLOITATION OF FOREIGN ITEMS	6	3,443	3,535	3,984		4,468	U
253	65712A SUPPORT OF OPERATIONAL TESTING	6	54,295	51,937	55,745		64,739	U
254	65716A THREAT SIMULATORS FOR TESTING	6		32,601	34,279		33,906	U
255	65717A NUCLEAR SURVIVABILITY TESTING & ANALYSIS	6			3,950		5,553	U
256	65801A PROGRAM-WIDE ACTIVITIES	6	92,133	171,766	85,484		93,979	U
257	65802A INTL COOPERATIVE RESEARCH AND DEV	6	611	936	977		1,284	U
258	65803A TECHNICAL INFO ACTIVITIES	6	5,750	6,196	6,772		7,875	U
259	65804A AMC MAJOR RANGES AND TEST FACILITIES	6	324,825	357,120	207,799		230,412	U
260	65805A MUNITIONS STANDARDIZATION EFFECTIVENESS & SAFETY	6	7,145	11,367	11,610		11,609	U

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DEPARTMENT OF THE ARMY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040 A RESEARCH DEVELOPMENT TEST + EVAL, ARMY

DATE: 04 FEB 1986

LINE NO	PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	
								THOUSANDS OF DOLLARS
								-----S
261	65806A	DOD HIGH ENERGY LASER SYSTEMS TEST FAC	6	32,811	19,940	20,729	21,471	U
262	65810A	RDTE SUPPORT FOR NON-DEVELOPMENTAL ITEMS	6			9,194	13,170	U
263	65872A	PRODUCTIVITY INVESTMENTS	6	11,855	20,747	53,893	15,548	U
264	65894A	REAL PROPERTY MAINTENANCE (RDT&E)	6			174,536	214,054	U
265	65896A	BASE OPERATIONS (RDT&E)	6			202,951	211,115	U
266	65898A	MGT HQ (RESEARCH/DEVELOPMENT)	6	41,921	12,018	11,244	11,582	U
267	78011A	INDUSTRIAL PREPAREDNESS	6	92,356	90,951	29,105	30,145	U
		DEFENSEWIDE MISSION SUPPORT		971,309	1,099,150	1,266,772	1,289,452	
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, ARMY				4,305,185	4,841,472	5,550,300	6,305,634	

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FY 1987 R D T & E PROGRAM

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DATE: 04 FEB 1986

SUMMARY

THOUSANDS OF DOLLARS

	FY 1985	FY 1986	FY 1987	FY 1988
SUMMARY RECAP OF RESEARCH CATEGORIES				
RESEARCH	340,246	365,398	388,839	416,034
EXPLORATORY DEVELOPMENT	451,154	470,189	462,209	501,980
ADVANCED DEVELOPMENT	1,974,839	2,501,558	2,140,686	2,379,312
ENGINEERING DEVELOPMENT	4,253,517	4,467,430	5,157,533	4,677,994
MANAGEMENT AND SUPPORT	606,419	574,098	586,189	670,626
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	7,626,175	8,378,673	8,735,456	8,645,946
OPERATIONAL SYSTEMS DEVELOPMENT	1,444,731	1,698,266	1,851,344	1,957,653
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, NAVY	9,070,906	10,076,939	10,586,800	10,603,599
SUMMARY RECAP OF BUDGET ACTIVITIES				
TECHNOLOGY BASE	791,400	835,587	851,048	918,014
ADVANCED TECHNOLOGY DEVELOPMENT	112,368	118,764	196,272	294,369
STRATEGIC PROGRAMS	2,261,933	2,386,068	2,001,046	1,576,859
TACTICAL PROGRAMS	4,748,013	5,375,213	6,035,049	6,191,443
INTELLIGENCE AND COMMUNICATIONS	421,467	580,556	695,030	765,499
DEFENSEWIDE MISSION SUPPORT	735,725	780,751	808,355	857,415
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, NAVY	9,070,906	10,076,939	10,586,800	10,603,599
SUMMARY RECAP OF FYDP PROGRAMS				
STRATEGIC FORCES	226,473	247,931	309,885	318,728
GENERAL PURPOSE FORCES	847,402	863,565	872,068	867,916
INTELLIGENCE AND COMMUNICATIONS	320,538	535,593	638,072	734,794
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	7,626,175	8,378,673	8,735,456	8,645,946
CENTRAL SUPPLY AND MAINTENANCE	50,318	51,177	31,319	36,215
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, NAVY	9,070,906	10,076,939	10,586,800	10,603,599

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FY 1987 R D T & E PROGRAM

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APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	THOUSANDS OF DOLLARS
1	61103N UNIVERSITY RESEARCH	1		6,245	12,068	24,142	U
2	61152N INHOUSE IND LAB RSRCH	1	24,433	26,221	26,918	27,983	U
3	61153N DEF RESRCH SCIENCES	1	315,813	332,932	349,853	363,909	U
4	62111N AAW/ASUW TECHNOLOGY	1	69,790	77,416	75,244	82,114	U
5	62113N ELECTRONIC WARFARE TECHNOLOGY	1	12,403	15,360	13,946	15,368	U
6	62121N SURFACE SHIP TECHNOLOGY	1	18,021	13,047	13,515	17,133	U
7	62122N AIRCRAFT TECHNOLOGY	1	24,966	23,621	21,111	24,219	U
8	62131M MARINE CORPS AIR-GROUND TECHNOLOGY	1	19,184	14,461	17,628	19,385	U
9	62232N COMMAND, CONTROL & COMMUNICATIONS TECHNOLOGY	1	20,473	18,843	20,242	26,222	U
10	62233N MISSION SUPPORT TECHNOLOGY	1	36,730	37,671	34,238	33,157	U
11	62234N SYSTEMS SUPPORT TECHNOLOGY	1	70,979	67,668	65,799	75,710	U
12	62314N ASW TECHNOLOGY	1	74,602	84,763	90,060	87,647	U
13	62315N MINE & SPECIAL WARFARE	1	9,879	12,179	14,038	16,253	U
14	62323N SUBMARINE TECHNOLOGY	1	12,305	14,549	12,441	13,440	U
15	62324N NUCLEAR PROPULSION	1	47,845	52,026	43,876	48,046	U
16	62435N OCEAN & ATMOSPHERIC SUPPORT TECHNOLOGY	1	21,548	24,412	25,354	27,425	U

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DEPARTMENT OF THE NAVY
FY 1987 R D T & E PROGRAM

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APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
17	62936N INDEPENDENT EXPLORATORY DEVELOPMENT	1	12,429	14,173	14,717	15,861	U
	TECHNOLOGY BASE		791,400	835,567	851,048	918,014	
18	63202N AVIONICS	2	1,900	1,735	3,858	3,861	U
19	63210N ADV AIRCRAFT PROPULSION SYS	2	3,997	2,995	6,638	8,555	U
20	63217N ADV A/C SUB SYSTEMS	2	4,938	8,464	7,944	22,249	U
21	63269N NATIONAL AEROSPACE PLANE	2			25,527	52,098	U
22	63303N ERASE SYS TECH	2	4,857	9,901	6,486	9,931	U
23	63308N A/S-A/A MSL TECH	2	2,626				U
24	63508N SHIP PROPULSION SYSTEM	2	42,765	30,302	22,474	38,713	U
25	63526N ADV COMP TECH	2	9,712	10,536			U
26	63560N SUBMARINE HULL ARRAY DEV (ADV)	2	12,592	7,623	8,891	3,932	U
27	63573N ELECTRIC DRIVE	2		9,641	9,816	21,328	U
28	63701N HUMAN FACTORS ENG (HFE)	2	1,808	2,088	3,964	6,276	U
29	63706N MEDICAL DEVELOPMENT	2	10,785	12,442	16,700	16,872	U
30	63707N MNPWR & PERSONNEL SYS	2	2,602	3,559	6,658	8,652	U
31	63712N GENERIC LOGISTICS R&D TECH DEMO	2		5,000	21,236	32,136	U
32	63720N EDUCATION AND TRAINING	2	3,458	2,955	6,536	10,783	U
33	63732M ADV MANPWR TRNG SYS	2	2,838	2,933	1,837	2,886	U
34	63733N SIMU & TRAINING DEVICES	2	7,290	7,826	8,218	9,605	U
35	63739N NAVY LOGISTICS PRODUCTIVITY	2		754	934	3,385	U
36	63747N ADV ASW TECH	2			25,063	20,761	U

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DATE: 04 FEB 1986

PROGRAM ELEMENT LINE NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
37	63792N ADV TECH TRANSITION	2			13,492	22,346	U
	ADVANCED TECHNOLOGY DEVELOPMENT		112,368	118,764	196,272	294,369	
38	63451N TACT SPACE OPERATIONS	3		14,002	22,506	16,039	U
39	63568N SSBN SURVIVABILITY	3			2,703	7,308	U
40	63735N WMMCCS ARCHITECTURE SUPPT	3	1,900				U
41	63741N SATELLITE LASER COMM	3	3,320		5,875	4,900	U
42	64363N TRIDENT II	3	2,010,814	2,104,376	1,632,866	1,179,773	U
43	65856N STRAT TECH SUPPORT	3	3,959	3,212	3,914	4,095	U
44	11221N FLT BALLSTC MIS SYS	3	31,828	20,778	40,222	59,274	U
45	11224N SSBN SEC TECH PROG	3	47,622	38,588	54,739	70,893	U
46	11228N TRIDENT	3	32,196	38,195	51,783	86,182	U
47	11401N EXTRME LOW FREQ COMM	3	20,253	28,256	18,296	3,179	U
48	11402N NAVY STRATEGIC COMM	3	93,557	121,162	143,282	97,426	U
49	12427N NAV SPASUR	3	1,017	952	1,563	1,774	U
50	33131N MEECN	3	1,467	1,615	1,687	1,301	U
51	33152N WIS MODERNIZATION	3	14,000	14,932	21,610	44,715	U
	STRATEGIC PROGRAMS		2,261,933	2,386,068	2,001,046	1,576,859	
52	63109N INTEGRATED A/C AVIONICS	4			22,484	27,818	U
53	63206N ELECT W/F ADV. DEV.	4	57,997	54,039	39,294	54,460	U
54	63207N AIR/OCEAN TACT. APPLIC.	4	6,663	6,730	7,522	10,676	U

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DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1988 C
			FY 1985	FY 1986	FY 1987	FY 1988 U	
55	63208N T-45/TS	4	67,512	115,986	134,163	94,579	U
56	63216N AIRBRN LIFE SUPT SYS	4	1,081	1,371	4,377	4,685	U
57	63219N ADV AIRCFT ARMAMENT SYS	4	250	3,999			U
58	63228N CV ASW MODULE	4	5,240	3,977	4,255	5,281	U
59	63251N AIRCRAFT SYSTEMS	4		9,891	5,547	4,522	U
60	63254N AIR ASW	4	6,252	4,625	9,131	8,270	U
61	63256N JVX	4	177,270	557,326			U
62	63257N A-6F	4	68,727	236,051	143,256	74,236	U
63	63259N ACOUSTIC SEARCH SENSORS	4	5,144				U
64	63260N ABN MINE CNTRMEASURES	4	15,306	12,575	11,565	15,109	U
65	63261N TAC AIR RECONN	4	8,663	2,207	18,042	27,705	U
66	63262N ACFT SURVIV/VULNERABILITY	4	19,609	13,622	19,054	22,287	U
67	63268N NAVAL AIRSHIP	4			9,834	9,849	U
68	63306N ADV. AIR-TG-SURF MSL.	4		21,692	42,409	22,569	U
69	63313N IRR MAVERICK	4	2,380		245	492	U
70	63315N RETRACT YELLOW	4	10,655				U
71	63318N ADV AIR-AIR SURF-AIR MSL	4	7,290	25,000	79,728	126,804	U
72	63320N LOW COST ANTI-RADIATION SEEKER	4	26,989	17,452	14,704	26,766	U
73	63367N SUB ASW STANDOFF WPN	4	51,064	74,828			U
74	63382N BGAAWC	4	7,674	7,720	13,746	17,911	U
75	63502N SURFACE MCM	4	29,519	22,415	22,678	28,506	U

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76	63504N SUB SONAR DEV	4	13,946	11,010	11,109	10,702 U
77	63506N SURF-SHIP TORPEDO DEFNS	4	26,957	36,207	36,908	33,303 U
78	63509N SHPBD INFO TRANSFER SYS	4	4,358			U
79	63512N CATAPULTS	4				7,568 U
80	63513N SHIPBRD SYS COMPNT DEV	4	13,192	15,145	14,917	18,959 U
81	63514N SHIPBRD DAMAGE CONTROL	4	18,662	23,400	41,861	46,306 U
82	63519N ADV COMMAND DATA SYS	4	5,960			U
83	63522N SUB ARCTIC WF/SPT EQUIP PROG	4	9,672	9,445	2,946	3,142 U
84	63525N PILOT FISH	4	119,231	93,964	75,248	62,012 U
85	63527N RETRACT LARCH	4				20,053 U
86	63528N NONACOUSTIC ASW	4	22,204	21,604	26,139	24,216 U
87	63529N ADV ASW TARGET	4	12,925	9,142	10,282	17,204 U
88	63532N SHIP SYS ENGR STDS	4	4,080	2,700		U
89	63536N RETRACT JUNIPER	4	13,703	21,159	28,935	36,837 U
90	63542N RADIOLOGICAL CONTROL	4	1,659	2,140	2,592	3,005 U
91	63550N LINK DOGWOOD	4	19,687	25,247	3,931	U
92	63553N SURFACE ASW	4	17,252	16,728	23,168	31,239 U
93	63561N ADV SUB SYS DEVELOPMENT	4	144,551	169,318		U
94	63562N SUB TAC WARFARE SYS	4	17,555	23,118	10,689	9,344 U
95	63564N SHIP DEVELOPMENT	4	13,989	13,562	21,606	34,425 U
96	63565N SURFACE SHIP NAVSYS	4		999	6,675	8,246 U

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LINE ELEMENT NO	PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				E
				FY 1985	FY 1986	FY 1987	FY 1988 C	
97	63569N	ATTACK SUBMARINE DEV	4	21,100	31,502	3,931	3,936 U	
98	63570N	ADV NUC REACTOR COMP SYS DEV	4	70,803	120,175	96,037	89,157 U	
99	63571N	PHYSICAL SECURITY	4	5,093	3,690	7,686	8,533 U	
100	63576N	CHALK EAGLE	4	51,912	68,783	79,351	87,338 U	
101	63578N	A4W/AIG NUC PROP PLANT	4	5,705	3,327	3,410	3,936 U	
102	63582N	COMBAT SYS INTEGRATION	4	20,436	21,962	24,051	25,860 U	
103	63589N	DDG-51	4	118,315			U	
104	63591N	JOINT ADVANCED SYSTEMS	4	107,656		78,680	9,053 U	
105	63592N	SEA STAR	4				2,457 U	
106	63601N	MINE DEVELOPMENT	4	665	4,436	14,836	26,450 U	
107	63602N	CHALK PINE	4			43,711	115,306 U	
108	63609N	CONVENTIONAL MUNITIONS	4	12,233	21,924	40,882	39,285 U	
109	63610N	ALWT (ADV)	4	3,140		7,434	11,749 U	
110	63611M	MC ASSAULT VEHICLES	4	14,499	10,407	11,005	13,321 U	
111	63634N	TAC NUCLEAR WEAPON DEV	4	7,012	7,760	15,151	22,214 U	
112	63635M	MC GRD COMBAT/SPT SYS	4	5,741	13,126	18,249	12,252 U	
113	63654N	JT SERV EXPL ORDN DEV	4	7,110	12,577	14,791	13,402 U	
114	63702N	OCEAN ENG SYS DEV	4	1,627	1,349	1,417	1,393 U	
115	63704N	ASW OCEANOGRAPHY	4	3,708	11,875	7,065	8,572 U	
116	63705N	LOGISTICS	4	529			U	
117	63708N	ASW SIGNAL PROCESSING	4	18,171	13,951	17,988	21,729 U	

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			FY 1985	FY 1986	FY 1987	FY 1988 U	
118	63709N ADV MARINE BIO SYSTEM	4	6,382	5,409	5,385	6,870	U
119	63711N FLEET TAC D&E PROGRAM	4	5,301	1,999	4,649	6,836	U
120	63713N OCEAN ENG TECH DEV	4	17,233	13,086	16,373	17,800	U
121	63717N COMMAND AND CONTROL SYS	4	18,764	30,093	36,525	21,476	U
122	63719N CONTAINER OFFLD/TRNSFR SYS	4	1,458	1,512	5,602	1,673	U
123	63722N NAVAL SPECIAL WARFARE	4	8,114	6,716	15,637	15,259	U
124	63724N NAVY ENERGY PROGRAM	4	20,001	18,310	16,833	18,828	U
125	63725N FACILITIES IMPROVEMENT	4	8,899	7,258	9,476	10,600	U
126	63726N MERSHIP NAV AUX PROG	4	5,482	5,737	6,014	5,039	U
127	63729M COMBAT SERVICES SUP (ADV)	4	8,387	9,341	15,857	21,986	U
128	63730M MC INTEL/ELC WAR SYS	4	12,082	70			U
129	63734N CHALK CORAL	4	5,242	6,139	14,694	3,641	U
130	63736N STRIKE WARFARE TECH	4	739				U
131	63737N LINK HAZEL	4	45,700	23,064	37,566	34,207	U
132	63740N LINK LAUREL	4	30,000	35,345	47,088	75,483	U
133	63743N ARIADNE	4		2,185	11,240	15,278	U
134	63744N LINK SPRUCE	4	8,500	35,000	94,272	170,165	U
135	63746N RETRACT MAPLE	4	5,835	9,747	20,782	33,830	U
136	63763N NCCS SE&I	4	13,542	7,172	12,599	17,903	U
137	63784N ASW SURVEILLANCE	4	12,397	17,393	25,982	52,661	U
138	63785N ASW ENVIRONMENTAL ACOUSTIC SPT	4	8,680	15,680	12,764	15,478	U

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LINE ELEMENT NO	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1989 C	E
				FY 1985	FY 1986	FY 1987	FY 1988		
139	63787N	SPECIAL PROCESSES	4	69,519	49,532	41,466	37,272	U	
140	63788N	RDSS	4	6,045				U	
141	64203N	STANDARD AVIONICS DEVELOPMENT	4	12,861	14,668	19,432	32,814	U	
142	64211N	IFF SYS DEV	4	10,811	17,141	23,449	55,412	U	
143	64212N	LAMPS	4	11,333	14,045	19,712	10,604	U	
144	64213N	HELQ DEV	4	16,158	5,766	11,084	12,748	U	
145	64214N	AV-8B AIRCRAFT (ENG)	4	61,308	65,300	48,639	20,458	U	
146	64215N	SUPPORT EQUIP	4	12,067	20,105	32,492	79,669	U	
147	64217N	S-3 WEAPONS SYS IMPRVMT	4	33,102	15,583	15,644		U	
148	64218N	AIR OCEAN EQUIP ENG	4	1,918	2,460	3,294	2,990	U	
149	64219N	AIRBORNE ASW DEV	4	25,349	5,601	2,266	5,512	U	
150	64220N	ACFT IR SIGNATURE SUPPR	4	1,207	1,500			U	
151	64221N	P-3 MODERNIZATION PRG	4	24,944	33,110	96,877	82,404	U	
152	64224N	ABN EW ENG.	4	42,072	56,096	55,973	41,801	U	
153	64226N	ASPJ	4	36,007	20,796	19,947	12,131	U	
154	64229N	CV 1Z ASW HELQ	4	19,100	12,389	8,062		U	
155	64252N	A/C PROPULSION (ENG)	4	23,774	44,566	27,500	300	U	
156	64255N	EW SIMULATOR DEVELOPMENT	4	22,148	35,260	51,896	58,125	U	
157	64260N	C/MH-53E	4	15,043	1,177	3,464	8,749	U	
158	64261N	ACOUSTIC SRCH SENSORS (ENG)	4	22,803	30,146	56,761	58,832	U	
159	64262N	V-22	4			386,871	483,087	U	

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LINE NO	PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				E
				FY 1985	FY 1986	FY 1987	FY 1988	
160	64264N	AVIATION LIFE SPT SYS	4	10,712	27,418	29,705	31,635	U
161	64268N	ACFT ENGINE COMPNT IMP	4	78,262	61,534	65,183	70,876	U
162	64301N	MK-92 FCS UPGRADE	4	15,352	13,154	7,808	12,716	U
163	64303N	AEIS AREA AIR DEF	4	12,654	10,654	4,312	6,822	U
164	64307N	AEIS WPN SYS IMP	4	41,415	121,742	134,939	117,044	U
165	64308N	LINK ASH	4	14,579	10,307	8,846	10,825	U
166	64309N	SEA LANCE	4			118,416	130,947	U
167	64314N	AMRAAM	4	7,869	4,797	19,022	27,987	U
168	64352N	SUR LNCHD WEAPNRY SHIP SYS	4	482				U
169	64353N	VERTICAL LAUNCHING SYS	4	39,439	29,141	20,388	22,278	U
170	64354N	AIR/AIR MSL SYS ENGR	4		18,545	27,906	24,116	U
171	64355N	VLS ASROC	4	30,568	41,063	41,669	18,685	U
172	64358N	CLOSE-IN WPN (PHALANX)	4	3,737	4,758	7,493	11,683	U
173	64361N	NATO SEA SPARROW	4	6,167	2,469	7,745	7,874	U
174	64365N	SM-2 (N)	4		2,795	9,229	15,040	U
175	64366N	STNDRD MISSILE IMPRVMTS	4	31,556	45,453	45,988	75,584	U
176	64367N	TOMAHAWK	4	71,935	61,987	68,368	70,953	U
177	64369N	5 IN. ROLLING AIR FRM MSLE	4	47,791	10,936	24,210	15,121	U
178	64370N	SSN-688 CLASS VLS	4	28,986	18,495	18,344	14,608	U
179	64371N	HELLFIRE	4	2,380				U
180	64372N	NEW THREAT UPGRADE	4	47,832	53,882	50,899	36,337	U

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181	64502N SUBMARINE COMMUNICATIONS	4	4,018	4,426	25,979	19,745	U	
182	64503N SUBMARINE SONAR DEV	4	35,303	38,904	52,716	44,742	U	
183	64504N AIR CONTROL ENG	4	16,680	19,788	9,207	29,079	U	
184	64506N CW COUNTERMEASURES	4	6,073	6,079	7,799	8,257	U	
185	64507N EMSP	4	61,199	93,397	100,345	66,730	U	
186	64508N RADAR SURVEILLANCE EQUIP	4	10,115	6,318	9,321	15,016	U	
187	64510N COMMUNICATION SYSTEMS	4	7,284				U	
188	64511N INTELLIGENCE SYSTEMS	4	1,063	900			U	
189	64515N SUB SPT EQUIP PROG	4	7,333	13,633	32,265	35,784	U	
190	64516N SHIP SURVIVABILITY	4	4,598	5,883	9,194	11,287	U	
191	64518N CMBT INFO CNTR CONVERSN	4	29,266	29,198	36,727	31,596	U	
192	64520N SUBMARINE HULL ARRAY DEV	4	11,391	9,488			U	
193	64524N SUB COMBAT SYSTEMS	4	172,349	199,508	316,649	277,253	U	
194	64561N SSN-21 DEVELOPMENT	4			256,668	224,921	U	
195	64562N SUB TACT WARFARE SYS	4	40,413	36,559	47,101	41,170	U	
196	64563N PHYSICAL SECURITY (ENG)	4	2,328	3,601	9,015	9,543	U	
197	64567N SHIP SUBSYS DEV/LBTS	4	83,569	107,356	18,822	28,106	U	
198	64569N NATO SEA GNAT	4	1,784	2,284			U	
199	64573N SHIPBD ELEC WARFR IMPRV	4	37,816	61,925	51,932	54,573	U	
200	64574N STD EMBEDDED COMPUTER RSRCS	4	11,144	9,160	32,469	55,878	U	
201	64575N SQS-53C	4	49,562	36,269	26,514	13,239	U	

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			FY 1985	FY 1986	FY 1987	FY 1988 C		
202	64578N LINK BIRCH	4	7,456	4,078	3,927	5,408	U	
203	64601N MINE DEVELOPMENT	4	10,484	9,048	13,740	15,174	U	
204	64602N NAVAL GUNNERY IMPROVEMENT	4	4,766	9,650	17,428	21,529	U	
205	64603N UNGUID CONVL AIRLNCH WEP	4	4,162	4,619	5,626	5,818	U	
206	64604N CHEM WARFARE WEAPONS	4	5,110	6,000	4,000		U	
207	64608N SAL GP/EO SENS DEV	4	39,422	38,933	21,156	16,150	U	
208	64609N BOMB-FUZE IMPR	4	7,819	5,617	14,711	14,992	U	
209	64610N MK-50 TORP (ALWT)	4	145,465	157,626	148,825	79,795	U	
210	64654N JT SERV EOD DEV (ENG)	4	3,999	4,405	5,420	5,667	U	
211	64656M MC ASSAULT VEHICLE	4	8,778	16,801			U	
212	64657M MC GRND CMBT/SPT ARMS	4	3,166	7,183	12,541	16,343	U	
213	64675N MK 48 ADCAP (ENG)	4	125,948	62,605	37,895	42,694	U	
214	64704N ASW OCEANOGRAPHIC EQUIP	4		506	1,162	1,389	U	
215	64705N CHALK BANYAN	4	5,000	5,826	16,600	8,454	U	
216	64707N THEATER MISSION PLAN CTR	4			22,275	31,547	U	
217	64708N INITIAL TRAINERS ACQUISITION	4			84,621	88,535	U	
218	64710N NAVY ENERGY PROGRAM	4	11,078	9,788	9,044	11,721	U	
219	64711N NCCS ASHORE NODES	4	39,169	48,783	53,029	41,916	U	
220	64713N SURF ASW SYS IMP	4		7,956	36,860	65,143	U	
221	64714N AIR W/F TRNG DEV	4	1,598		1,964	1,966	U	
222	64715N SURFACE W/F TRNG DEV	4	24,600	23,273	28,631	31,447	U	

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DEPARTMENT OF THE NAVY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS	
223	64716N SUB W/F TRNG DEV	4	481					U
224	64717M COMBAT SERVICES SPT	4	4,392	3,638	5,465	5,821		U
225	64718M MC INTEL/ELEC WAR SYS	4	4,784	14,140	9,546	11,332		U
226	64719M MC CMD/CNTRL/COMM SYS	4	23,432	13,361	16,005	16,120		U
227	64720M TACAIR OPER CENT 85	4	5,493					U
228	64725N REGIONAL TAC SURV	4	31,570	56,216	40,971	12,904		U
229	64761N INTELLIGENCE (ENG)	4	8,716	8,040	6,460	7,699		U
230	64771N MEDICAL DEV (ENG)	4	2,355	1,382	2,997	4,523		U
231	64779N JT INTEROP TAC CMD/CNTRL	4	4,213	6,056	3,586	3,422		U
232	64780M JT INTEROP TAC CMD/CNTRL MC	4	1,862	1,668	3,471	3,765		U
233	65155N FLEET TAC DEV/EVAL	4	14,318	16,085	16,590	20,141		U
234	65803N ELECTROMAGN SPECTRUM MGT	4	4,105	2,572	5,873	7,308		U
235	65853N MNGMNT AND TECH SPT	4	13,234	7,858	14,296	16,682		U
236	65867N C2 SURV RECON SUP	4	7,499	3,979	5,342	5,947		U
237	65871M MC TAC EXPLOIT NAT CAP	4	503	415	849	1,175		U
238	24134N A-6 SQUADRONS	4	21,472	22,382	13,820	14,482		U
239	24136N F/A-18 SQUADRONS	4	31,236	58,274	59,093	63,474		U
240	24152N ERLY WRNG ACFT SQDRNS	4	34,396	23,569	34,454	63,445		U
241	24161N AVIATION SPT CVW	4	3,019	1,757	2,221	7,466		U
242	24163N FLEET TCC (TAC)	4	43,122	38,561	63,733	95,211		U
243	24281N SUBMARINES	4	3,813					U

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DEPARTMENT OF THE NAVY
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EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
244	24311N UNDERSEA SURVEILL SYS	4	31,917	48,232	34,198	38,611	U
245	24313N SURTASS	4	3,731	1,993	5,833	6,356	U
246	24571N SPECIAL PROJECTS	4	18,664	16,982	10,500	14,408	U
247	24573N COVER AND DECEPTION PROG	4	23,185	23,787	15,066	19,500	U
248	24575N EW READINESS SUPPORT	4	8,311	7,067	4,421	8,786	U
249	24576N COUNTER C3 DEV	4	27,371	22,320	23,952	25,109	U
250	25601N HARM IMPROVEMENTS	4	4,020	2,633	3,931	3,109	U
251	25604N TACTICAL INFO SYS	4	133,240		48,071	55,642	U
252	25620N ASW CMBT SYS INTEGRATION	4	11,833	10,391	17,409	19,532	U
253	25633N ACFT EQ RELIABILITY/MAINT PROG	4	7,556	7,557	8,846	9,841	U
254	25634N SUB SILENCING	4	28,244	31,533			U
255	25658N LAB FLEET SUPPORT	4	6,326	6,146	6,056	7,346	U
256	25667N F-14 UPGRADE	4	276,655	347,865	268,421	156,657	U
257	25670N TAC INTELL PROCESSING	4	2,026	1,454	2,160	2,128	U
258	25674N EW COUNTER RESPONSE	4	35,804	78,186	69,708	58,509	U
259	25675N OPERATIONAL REACTOR DEV	4	12,791	12,719	18,872	22,745	U
260	26313M MAR CORPS TELECOM	4	6,514	3,587	11,644	14,559	U
261	26623M MC GRD COMBAT/SUP ARMS SYS	4	17,480	41,800	67,934	54,640	U
262	26624M MC COMBAT SERVICES SPT	4	2,825	1,449	2,548	3,857	U
263	26625M MC INTEL/ELEC WAR SYS	4	888	1,163	24,822	24,149	U
264	26626M MC CMD/CNTL/COMM SYS	4	20,710	39,064	39,925	57,999	U

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DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

SYSTEM NOMENCLATURE

FY 1988 C

8,016 U

12, 339 U

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191, 443

2

1,993 U

39,994 U

89,031 U

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14.578 U

4. 449 U

76E 199

9,382 U

3

13,577 U

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DEPARTMENT OF THE NAVY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1988 C E
			FY 1985	FY 1986	FY 1987	FY 1988 U	
283	64258N TARGET SYS DEV	6	83,170	96,934	111,690	121,867	U
284	64703N PERS TRNG, SIMULATION & HUMAN FACTORS	6	5,070	5,800	6,823	6,799	U
285	65151M STUDIES ANALYSIS SPT--MC	6	1,852	1,785	1,811	2,439	U
286	65152N STUDIES ANALYS SPT--NAVY	6	6,143	6,433	8,031	11,257	U
287	65153M MC OPS ANALYS GP-CNA	6	3,306	3,714	4,068	4,739	U
288	65154N CNTR FOR NAV ANALYSIS	6	15,427	17,500	18,603	22,837	U
289	65156M MC OPERATNL TEST/EVAL	6	703	2,317	1,751	1,988	U
290	65502N SBIR	6	25,233				U
291	65804N TECH INFO SERVICES	6	2,157	2,244	2,543	3,183	U
292	65852N AUTC	6	47,094	43,197			U
293	65854M DEVEL CENTER SUPPORT	6	4,512	3,958	5,300	5,693	U
294	65857N INTERNATIONAL RDT/E	6	3,235	2,820	3,587	4,203	U
295	65859N MOBILE SEA RANGE	6	5,633	4,709			U
296	65861N RDTE LAB/FAC MGT SPT	6	59,062	61,575	54,974	57,121	U
297	65862N RDTE INSTRUMTN/MAT SPT	6	18,357	18,895	19,789	35,404	U
298	65863N RDTE SHIP/AIRCFT SPT	6	74,137	73,596	81,335	98,147	U
299	65864N TEST/EVAL SPT	6	284,596	285,639	330,580	359,058	U
300	65865N OPER TEST/EVAL CAPABLT	6	6,319	6,281	6,853	9,209	U
301	35111N WEATHER SERVICE	6	912	1,146	1,000	990	U

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DEPARTMENT OF THE NAVY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319 N RESEARCH DEVELOPMENT TEST + EVAL, NAVY

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	
302	35160N DEF METEOR SATEL PROG	6	21,398	45,839	49,040	53,307	U
303	78011N MANUFACTURING TECHNOLOGY	6	50,318	51,177	31,319	36,215	U
	DEFENSEWIDE MISSION SUPPORT		735,725	780,751	808,355	857,415	
TOTAL	RESEARCH DEVELOPMENT TEST + EVAL, NAVY		9,070,906	10,076,939	10,586,800	10,603,599	

THOUSANDS OF DOLLARS

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

SUMMARY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

SUMMARY RECAP OF RESEARCH CATEGORIES

RESEARCH	202,834	228,393	242,582	258,601
EXPLORATORY DEVELOPMENT	550,669	583,094	605,688	635,341
ADVANCED DEVELOPMENT	2,146,893	3,065,838	3,983,500	4,392,805
ENGINEERING DEVELOPMENT	5,246,399	3,838,704	5,040,076	5,609,246
MANAGEMENT AND SUPPORT	911,137	908,850	994,158	1,028,404
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	9,057,932	8,624,879	10,866,004	11,924,397
OPERATIONAL SYSTEMS DEVELOPMENT	4,225,559	5,162,529	6,409,396	5,932,642
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	13,283,491	13,787,408	17,275,400	17,857,039

SUMMARY RECAP OF BUDGET ACTIVITIES

TECHNOLOGY BASE	753,503	811,487	848,270	893,942
ADVANCED TECHNOLOGY DEVELOPMENT	537,436	665,143	783,997	727,504
STRATEGIC PROGRAMS	5,611,923	5,357,606	7,076,605	8,003,718
TACTICAL PROGRAMS	2,585,823	2,723,024	3,904,505	3,766,135
INTELLIGENCE AND COMMUNICATIONS	1,855,559	2,243,708	2,540,741	2,347,810
DEFENSEWIDE MISSION SUPPORT	1,939,247	1,986,440	2,121,282	2,117,930
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	13,283,491	13,787,408	17,275,400	17,857,039

SUMMARY RECAP OF FYDP PROGRAMS

STRATEGIC FORCES	357,548	665,091	833,076	989,850
GENERAL PURPOSE FORCES	779,816	873,566	1,285,154	1,088,390
INTELLIGENCE AND COMMUNICATIONS	2,969,544	3,447,442	4,046,689	3,620,339
AIRLIFT/SEALIFT	36,016	80,208	112,161	101,347
GUARD AND RESERVE			4,531	5,056
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	9,057,932	8,624,879	10,866,004	11,924,397
CENTRAL SUPPLY AND MAINTENANCE	68,295	88,101	120,253	119,203
TRAINING MEDICAL AND OTHER	5,208	5,165	4,788	4,367
ADMINISTRATION AND ASSOC ACTIVITIES	5,200			962
SUPPORT OF OTHER NATIONS	3,932	2,956	2,744	3,128
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, AF	13,283,491	13,787,408	17,275,400	17,857,039

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
THOUSANDS OF DOLLARS						\$
1	61101F IN-HOUSE LAB INDEPENDENT RESEARCH	1	14,922	16,000	17,465	19,741 U
2	61102F DEFENSE RESEARCH SCIENCES	1	187,912	206,143	212,587	213,860 U
3	61103F UNIVERSITY RESEARCH INITIATIVES	1		6,250	12,530	25,000 U
4	62101F GEOPHYSICS	1	37,303	39,429	40,625	42,128 U
5	62102F MATERIALS	1	49,955	53,235	57,478	60,150 U
6	62201F AEROSPACE FLIGHT DYNAMICS	1	64,958	68,749	70,281	72,614 U
7	62202F AEROSPACE BIOTECHNOLOGY	1	47,053	48,136	53,371	55,447 U
8	62203F AEROSPACE PROPULSION	1	58,188	63,297	65,552	68,415 U
9	62204F AEROSPACE AVIONICS	1	73,135	71,204	67,826	78,083 U
10	62205F TRAINING/SIMULATION TECH	1	22,753	25,435	26,802	28,196 U
11	62206F CIVIL ENGINEERING & ENVIRONMENTAL QA	1		9,225	5,425	5,916 U
12	62302F ROCKET PROPULSION	1	35,023	40,066	41,890	43,945 U
13	62601F ADVANCED WEAPONS	1	37,682	36,202	37,070	38,366 U
14	62602F CONVENTIONAL MUNITIONS	1	42,542	41,230	49,884	49,634 U
15	62702F COMMAND/CONTROL/COMMUNICATION	1	74,269	78,330	79,678	82,226 U
16	62703F PERS UTILIZATION TECH	1	7,808	8,556	9,806	10,221 U
	TECHNOLOGY BASE		753,503	811,487	848,270	893,942
17	63106F LOGISTICS RESEARCH & DEV RQMTS	2	8,405	9,488	19,061	29,069 U
18	63109F INTEGRATED EW SYSTEM ADV DEVELOPMENT	2		43,853	60,107	31,954 U
19	63202F ACFT PROPULSION SUBSYS INTEGRATION	2	26,438	26,693	30,180	31,225 U
20	63203F ADV AVIONICS FOR ACFT	2	23,686	21,028	49,835	43,925 U

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1988 C
			FY 1985	FY 1986	FY 1987	FY 1988 U	
21	63205F FLT VEHICLE TECHNOLOGY	2	18,539	19,441	27,557	24,259 U	
22	63208F RECON SENSORS/PROCESSING TECHNOLOGY	2	8,179	5,821	6,064	7,925 U	
23	63211F AEROSPACE STRUCTURES/MATERIALS	2	12,885	18,084	31,512	32,599 U	
24	63215F AVIATION TURBINE FUEL TECHNOLOGY	2	3,279	7,952	10,432	11,129 U	
25	63216F ADV TURBINE ENGINE GAS GENERATOR	2	25,166	26,933	27,838	26,999 U	
26	63217F WEAPON SYSTEM POWER	2		1,235	3,544	6,440 U	
27	63226F DOD COMMON PROG LANGUAGE(ADA) ADV DEV	2	8,011	7,270	6,890	6,503 U	
28	63227F ADVANCED SIMULATOR TECHNOLOGY	2	6,997	4,297	5,054	6,409 U	
29	63231F CREW SYSTEMS TECHNOLOGY	2	10,150	11,207	15,905	12,309 U	
30	63244F ACFT NON-NUCLEAR SURVIVABILITY	2	2,589	3,191	2,470	3,591 U	
31	63245F ADV FIGHTER TECH INTEGRATION	2	19,620	19,203	30,679	28,741 U	
32	63250F LINCOLN LABORATORY	2	24,637	23,000	26,524	28,208 U	
33	63253F ADVANCED SYSTEM INTEGRATION DEMO	2	29,444		9,369	6,708 U	
34	63259F CARTOG APPLICATIONS-TAC & STRAT SYS	2	1,088	1,373	1,706	1,803 U	
35	63269F NATIONAL AEROSPACE PLANE TECHNOLOGY	2			33,490	84,512 U	
36	63302F SPACE & MSL ROCKET PROPULSION	2	1,989	3,295	12,911	16,477 U	
37	63319F ADVANCED TECHNOLOGY CRUISE MISSILE	2	13,935	7,482		U	
38	63363F HYPERVELOCITY MISSILE	2	4,000	10,456	9,609	11,972 U	
39	63401F ADVANCED SPACECRAFT TECH	2	6,877	6,821	14,373	19,815 U	
40	63410F SPACE SYS ENVIRON INTERACTIONS TECH	2	3,711	3,854	8,529	7,006 U	
41	63424F CRUISE MISSILE SURVEILLANCE TECH	2	6,994	11,255	16,850	26,625 U	

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
42	63452F VERY HIGH SPEED INTEGRATED CIRCUITS	2	131,971	201,994	132,897	29,548	U
43	63601F CONVENTIONAL WEAPONS	2	21,577	24,856	30,903	27,672	U
44	63605F ADVANCED RADIATION TECH	2	8,479	23,449	23,641	22,918	U
45	63704F MANPOWER & PERSONNEL SYS TECH	2	1,930	2,143	2,370	2,491	U
46	63707F WEATHER SYSTEMS	2	3,034	3,375	3,697	4,102	U
47	63718F ELECTRONIC WARFARE TECHNOLOGY	2	24,797	25,540			U
48	63723F CIVIL/ENVIRONMENTAL ENGR TECH	2	9,051	13,692	13,703	13,591	U
49	63726F FIBER OPTICS DEVELOPMENT	2	3,037	3,373	2,841	3,824	U
50	63727F ADVANCED COMMUNICATIONS TECHNOLOGY	2	4,817	4,770	1,926	1,448	U
51	63728F ADVANCED COMPUTER TECHNOLOGY	2	6,639	7,309	10,491	10,637	U
52	63743F ELECTRO-OPTICAL WARFARE	2	15,622	13,915	53,363	50,469	U
53	63745F CHEMICAL WARFARE DEFENSE	2	3,806	4,873	5,149	3,833	U
54	63750F COUNTER/COUNTERMEASURES - ADV DEV	2	10,393	13,057	7,612	8,426	U
55	63751F TRAINING SYSTEMS TECHNOLOGY	2	5,245	2,264	2,411	2,432	U
56	63752F DOD SOFTWARE ENGINEERING INSTITUTE	2	4,973	11,443	9,541	14,328	U
57	63789F COMD/CNTRL/COMM ADV DEV	2	15,446	15,858	22,963	25,582	U
	ADVANCED TECHNOLOGY DEVELOPMENT		537,436	665,143	783,997	727,504	
58	63258F COMMON STRATEGIC ROTARY LAUNCHER	3	61,329				U
59	63311F ADVANCED STRATEGIC MISSILE SYSTEMS	3	99,472	159,756	176,915	184,515	U
60	63312F ADVANCED CONCEPTS	3					
61	63364F SHORT RANGE ATTACK MISSILE II	3	12,364	34,108	164,702	250,403	U

DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	C
							E
							S
							THOUSANDS OF DOLLARS
62	63367F STRATEGIC RELOCATABLE TARGET CAPABIL	3			985	1,572	U
63	63368F AIR DEFENSE BATTLE MGT TECH	3			2,500	10,500	U
64	63369F CRUISE MISSILE ENGAG SYS TECH	3			2,100	13,500	U
65	63716F ATMOSPHERIC SURVEILLANCE TECH	3	4,881	4,851	32,024	30,604	U
66	63735F WWMCCS ARCHITECTURE	3	13,515	7,831	2,224	2,525	U
67	64221F SPECIAL IMPROVEMENT PROJECTS	3					
68	64226F B-1B	3	462,529	271,640	118,652	28,948	U
69	64234F COMMON STRATEGIC ROTARY LAUNCHER	3		70,778	14,591	5,832	U
70	64312F ICBM MODERNIZATION	3	2,169,138	1,442,271	2,116,798	2,733,726	U
71	64326F STRAT CONV STANDOFF CAPA(SCSC)	3	24,865	35,083	7,464		U
72	64361F AIR LAUNCHED CRUISE MISSILE	3	18,912	10,894	6,065	3,703	U
73	64406F SPACE DEFENSE SYS	3	197,769	199,500	277,957	226,217	U
74	64711F SYSTEMS SURVIVABILITY (NUC AFFECTS)	3	9,771	7,725	13,515	19,650	U
75	11113F B-52 SQUADRONS	3	17,067	12,829			U
76	11120F ADVANCED CRUISE MISSILE	3					
77	11135F AIRCRAFT SURVIVABILITY ENHANCEMENTS	3					
78	11142F KC-135 SQUADRONS	3	1,110	944	3,941	4,153	U
79	11213F MINUTEMAN SQUADRONS	3	4,572	5,511	67,526	221,921	U
80	11312F PACCS/WWABNCP SYS EC-135 CL V MODS	3	1,340	3,993	14,798	28,045	U
81	11316F SAC COMMUNICATIONS	3	6,965	7,396	610		U
82	12310F NCMC - TW/AA SYSTEMS	3	21,334	51,108	32,935	72,527	U

DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	THOUSANDS OF DOLLARS
83	12311F NCMC - SPACE DEFENSE SYSTEMS	3	37,441	56,518	41,284	23,974	U
84	12313F BALLISTIC MSL TAC WNG/ATK ASSES SYS	3	4,714	2,100	3,084	2,878	U
85	12323F TW/AA INTERFACE NETWORK	3		1,430			U
86	12325F JOINT SURVEILLANCE SYSTEM	3	2,302	2,017	3,509	2,279	U
87	12411F SURVEILL RADAR STATIONS/SITES	3	3,514	19,700	25,004	15,527	U
88	12412F DEW RADAR STATIONS	3	42,000	39,871	14,430	6,744	U
89	12417F OVER-THE-HORIZON RADAR	3	60,890	65,738	33,877	46,525	U
90	12423F BALLISTIC MSL EARLY WNG SYSTEM	3	9,968	12,636	16,225	22,746	U
91	12424F SPACETRACK	3	10,214	9,368	16,461	14,264	U
92	12431F DEFENSE SUPPORT PROGRAM	3	63,862	77,540	138,178	95,429	U
93	12432F SLBM RADAR WARNING SYSTEMS	3	11,219	8,025	19,752	20,728	U
94	12433F INTEGRATED OPER NUDETS DETECT SYS	3	36,795	20,015	31,346	9,717	U
95	12436F COMD CTR PROCESS/DISPLAY SYS	3	6,022	14,430	27,027	24,789	U
96	12822F LEO	3					
97	32015F NEACP/E-4B CL V MODS	3	21,380				U
98	33131F MINIMUM ESSENTIAL EMER COMM NETWORK	3	107,681	99,526	92,527	57,947	U
99	33152F WMCCS INFORMATION SYSTEM	3		4,873	8,510	9,591	U
100	33154F WMCCS INFORMATION SYSTEM - JPMO	3	32,544	62,097	111,374	85,633	U
101	33601F MILSTAR SAT COMM SYS (AF TERMINALS)	3	127,197	124,254	298,527	291,272	U
102	33603F MILSTAR COMM SAT SYSTEM	3	325,042	336,886	493,357		
103	35155F THEATER NUC WPN STORAGE&SEC SYS	3	4,158	1,018			U

DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM
LINE ELEMENT
NO NUMBER

ITEM NOMENCLATURE

ACT

FY 1985

FY 1986

FY 1987

FY 1988 C

104	35172F	BERNIE	3					
105	35892F	SPECIAL ANALYSIS ACTYS	3					
106	41123F	MILITARY AIRLIFT GROUP (IF)	3		19,490	8,963	12,677	U
		STRATEGIC PROGRAMS			5,357,606	7,076,605	8,003,718	
					5,611,923			
107	63230F	ADVANCED TACTICAL FIGHTER	4	90,880	164,628	294,099	343,520	U
108	63239F	UNMANNED AIR RECONNAISSANCE VEHICLE	4	4,952	9,745	3,940		U
109	63256F	CV-22A	4	880	2,429	4,920	4,800	U
110	63307F	AIR BASE SURVIVABILITY & RECOVERY	4	4,286	4,863	7,078	5,509	U
111	63320F	LOW COST SEEKER	4		17,109	14,775	15,723	U
112	63437F	HAVE DJINN	4					U
113	63607F	F-4 MODERNIZATION DEMONSTRATION	4		14,618			
114	63609F	MILLIMETER WAVE SEEKERS	4	4,973	18,567	14,179	4,838	U
115	63714F	DOD PHYSICAL SECURITY EQ-EXTERIOR	4	1,881	985	984	931	U
116	63717F	TECHNICAL ON-SITE INSPECTION (TOSI)	4			9,850	3,931	U
117	63742F	COMBAT IDENTIFICATION TECHNOLOGY	4	14,912	8,528	6,314		U
118	63749F	C3CM ADVANCED SYSTEMS	4	498	1,949	4,512	1,478	U
119	63770F	JT SURV.TGT ATK RADAR SYS(JSTARS)	4	3,300	3,118			U
120	63801F	SPECIAL PROGRAMS	4					
121	64201F	ACFT AVIONICS EQUIPMENT DEVELOPMENT	4	22,225	28,383	25,092	23,935	U
122	64209F	F-100 DURABILITY	4	13,928	2,825			U
123	64212F	AIRCRAFT EQUIPMENT DEV	4	4,606	8,516	4,862	7,780	U

DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	
							THOUSANDS OF DOLLARS
							-----S
							E

124	64218F ENGINE MODEL DERIVATIVE PROG	4	76,768	60,606	68,132	3,156	U
125	64219F INTEGRATED DIGITAL AVIONICS	4		8,000	13,394	276	U
126	64220F EW COUNTER RESPONSE	4	13,926	29,202	34,068	4,041	U
127	64222F NUCLEAR WEAPONS SUPPORT	4	1,946	1,983	4,341	4,537	U
128	64223F ALTERNATE FIGHTER ENGINE	4	52,867	32,482	109,376	89,393	U
129	64231F C-17 PROGRAM	4	119,969	372,759	612,262	901,922	U
130	64232F PAVE RUNNER	4					
131	64236F INFRARED SEARCH & TRACK SYS	4		23,054	34,846	43,462	U
132	64247F MODULAR AUTOMATIC TEST EQUIPMENT	4	11,792	9,683	23,682	26,459	U
133	64249F NIGHT PRECISION ATTACK	4	97,839	39,793	40,103	20,429	U
134	64250F INTEGRATED EW/CNI DEVELOPMENT	4				5,835	U
135	64268F ACFT ENGINE COMPONENT IMPROVE PROG	4	144,239	121,728	141,776	141,306	U
136	64302F DEF SUPPRESSION WPNS ENG DEV	4	2,984				U
137	64313F T-46A	4	76,685	52,812	10,756	11,714	U
138	64314F ADV MED RANGE AIR-TO-AIR MSL	4	204,291	101,291	39,080	13,013	U
139	64315F ADV SHORT RANGE AIR-TO-AIR MISSILE	4			386	865	U
140	64321F JOINT TACTICAL FUSION PROGRAM	4	17,703	23,720	24,661		
141	64327F HARDENED TARGET MUNITIONS	4			15,115	15,353	U
142	64362F GRD LAUNCHED CRUISE MSL	4	18,563	667	7,377		U
143	64601F C/B DEFENSE EQUIPMENT	4	11,187	21,915	27,187	27,623	U
144	64602F ARMAMENT ORDNANCE DEVELOPMENT	4	18,481	17,116	29,773	25,235	U

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS	U
145	64604F SUBMUNITIONS	4	34,853	37,919	4,921	4,767	U	
146	64607F WIDE-AREA ANTI-ARMOR MUNITION	4	19,222	12,238	15,102	18,120	U	
147	64617F AIR BASE SURVIVABILITY & RECOVERY	4	12,768	19,393	21,330	19,799	U	
148	64703F AEROMEDICAL SYSTEMS DEVELOPMENT	4	4,921	7,844	9,341	8,873	U	
149	64706F LIFE SUPPORT SYSTEM	4	9,918	15,272	12,396	20,432	U	
150	64708F OTHER OPERATIONAL EQUIPMENT	4	19,947	17,507	14,469	9,869	U	
151	64710F RECONNAISSANCE EQUIPMENT	4	5,273	7,621	9,540	10,200	U	
152	64715F DOD PHYSICAL SECURITY EQ-EXTERIOR	4	21,471	15,332	18,511	11,758	U	
153	64724F TAC C3 COUNTER-MEASURES	4	23,075	29,661	24,636	16,363	U	
154	64725F COMBAT IDENTIFICATION SYSTEMS	4	13,731	12,828	12,012	29,494	U	
155	64733F SURFACE DEF SUPPRESSION	4	16,706	29,235	44,119	34,182	U	
156	64737F AIRBORNE SELF-PROTECTION JAMMER	4	24,874	5,000	10,071		U	
157	64738F PROTECTIVE SYSTEMS	4	42,855	50,115	92,705	72,390	U	
158	64739F TACTICAL PROTECTIVE SYSTEMS	4	29,651	43,789	94,910	95,004	U	
159	64740F COMPUTER RESOURCES MGT TECH	4	9,369	11,705	12,957	18,689	U	
160	64742F PRECISION LOCATION STRIKE SYSTEM	4	76,895	61,474	26,601	11,136	U	
161	64750F INTELLIGENCE EQUIPMENT	4	15,273	13,138	10,417	7,091	U	
162	64753F COMBAT HELICOPTER MODERNIZATION	4	34,031	9,745			U	
163	64754F JT TAC INFO DIST SYS	4	85,005				U	
164	64756F SIDE LOOKING AIRBORNE RADAR (SLAR)	4	27,181	23,440	19,691	19,278	U	
165	64770F JSTARS	4	46,429		355,692	335,516	U	

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	E
THOUSANDS OF DOLLARS							S
166	64779F JT INTEROPERABILITY TAC CMD/CNTRL	4	13,384	8,908	9,866	6,218	U
167	11133F SR-71 SQUADRONS	4					
168	21131F US READINESS CMD - COMM	4				4,913	U
169	27129F F-111 SQUADRONS	4	60,000	47,253	35,236	27,842	U
170	27130F F-15 SQUADRONS	4	189,592	229,993	208,988	106,473	U
171	27131F A-10 SQUADRONS	4	2,108	3,014			U
172	27133F F-16 SQUADRONS	4	91,418	66,270	81,323	42,718	U
173	27136F F-4G WILD WEASEL SQUADRONS	4	47,267	35,740	38,698	23,278	U
174	27137F CONSTANT HELP	4					
175	27139F COMPETITIVE FIGHTER PROCUREMENT	4				27,516	U
176	27162F TACTICAL AGM MISSILES	4	1,883	1,943	2,377	2,398	U
177	27168F F-111 SELF PROTECTION SYSTEMS	4				32,429	U
178	27215F TR-1 SQUADRONS	4			23,509	33,897	U
179	27217F FOLLOW-ON TAC RECCE SYS	4			30,583	19,935	U
180	27247F AIR FORCE TENCAP	4	260	244	105	320	U
181	27411F OVERSEAS AIR WEAPON CONT SYS	4	3,175	3,014	8,534	10,906	U
182	27412F TACTICAL AIR CONTROL SYSTEM	4	23,504	14,566	19,261	41,694	U
183	27417F AIR BORNE WARNING & CONTROL SYS	4	65,114	118,762	137,190	117,842	U
184	27419F TACTICAL AIRBORNE CMD & CONTROL SYS	4		7,943			U
185	27423F ADV COMM SYS	4	84,813	100,786	33,335	30,437	U
186	27431F TAC AIR INTELL SYS ACTYS	4	579	2,135	492	491	U

DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM
LINE ELEMENT
NO NUMBER

ITEM NOMENCLATURE

ACT

FY 1985

FY 1986

FY 1987

FY 1988 C

99 U

187 27435F TACTICAL RECON IMAGERY EXPLOITATION

4 1,356

7,495

831

188 27584F SEEK AXLE

4

189 27585F SEEK SPINNER

4

190 27591F OMEGA

4

191 27595F BASE COMM - TACTICAL AIR FORCES

4 985

862

3,207

3,245 U

192 28010F JT TACTICAL COMM PROG (TRI-TAC)

4

9,810

4,776

11,425

13,349 U

193 28042F HAVE FLAG

4

194 33605F SATELLITE COMMUNICATIONS TERMINALS

4

2,860

4,814

4,615

4,464 U

195 35887F ELECTRONIC COMBAT INTEL SPT

4

1,928

1,552

1,784

1,673 U

196 41115F C-130 AIRLIFT SQUADRONS (IF)

4

789

U

197 41129F THEME CASTLE

4

198 41314F OPERATIONAL SUPPORT AIRLIFT

4

7,313

7,741

22,712

269 U

199 41840F MAC COMMAND/CONTROL SYS

4

9,745

66,539

68,373 U

200 44011F SPECIAL OPERATIONS FORCES

4

4,531

3,904,505

5,056 U

201 52610F A-7 SQUADRONS (ANG)

4

2,565,823

2,723,024

3,766,135

TACTICAL PROGRAMS

202 63260F INTELLIGENCE ADVANCED DEVELOPMENT

5

6,081

7,790 U

203 63261F PAVE RUNNER ADVANCED DEVELOPMENT

5

39,168

41,916

35,805

37,021 U

204 63431F SPACE COMMUNICATIONS

5

205 64238F CONSTANT PISCES

5

DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	U E C
THOUSANDS OF DOLLARS							\$
206	64778F NAVSTAR GPS USER EQUIPMENT	5	55,197				U
207	27169F SEEK CLOCK	5					
208	27582F HAVE TRUMP	5					
209	31305F INTELLIGENCE PRODUCTION ACTIVITIES	5					
210	31310F FOREIGN TECHNOLOGY DIVISION	5					
211	31314F INFRARED PROCESSING + EXPLOITATION	5					
212	31315F MISSILE AND SPACE TECH COLLECTION	5					
213	31317F SENIOR YEAR OPERATIONS	5					
214	31324F FOREST GREEN	5					
215	31357F INTEG OPERATIONAL NUDETS DETECT SYS	5					
216	32053F NMCS-WIDE SUPPORT-COMMUNICATIONS	5	3,200		1,970		U
217	33110F DEF SATELLITE COMM SYS	5	28,023	6,753	14,001	12,531	U
218	33126F LONG-HAUL COMMUNICATIONS (DCS)	5	9,329	11,249	5,630	5,264	U
219	33128F I-S/A AMPE SYSTEM	5		30,600	54,567	9,336	U
220	33144F ELECTROMAG COMPATIBILITY ANAL CTR	5	6,890	7,256	7,670	8,067	U
221	33401F COMMUNICATIONS SECURITY	5	3,247				
222	34111F SPECIAL ACTIVITIES	5	1,605,300	1,738,619	1,793,491		
223	35114F TRAFFIC CNTRL/APPROACH/LANDING SYS	5	10,370	23,913	18,575	5,098	U
224	35159F DEFENSE RECONN SUPPORT ACTIVITIES	5					
225	35164F NAVSTAR GLOBAL POS SYS (USER EQ)	5	9,060	27,960	45,024	52,650	U

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
THOUSANDS OF DOLLARS						E
226	35165F NAVSTAR GPS (SPACE/GRD SEGMENTS)	5	32,789	44,365	44,362	45,592 U
227	84733F GEN INTELLIGENCE SKILL TNG	5	5,208	5,165	4,788	4,367 U
	INTELLIGENCE AND COMMUNICATIONS		1,855,559	2,243,708	2,540,741	2,347,810
228	63248F CONCEPT DEVELOPMENT	6	4,994	2,000	3,214	4,881 U
229	63402F SPACE TEST PROGRAM	6	74,538	66,690	73,692	83,730 U
230	63438F SATELLITE SYS SURVIVABILITY	6	5,490	4,164	5,405	11,677 U
231	63790F NATO COOPERATIVE R&D	6		25,000	49,249	U
232	64211F ADV AERIAL TARGETS DEV	6	3,364	13,119	11,149	11,422 U
233	64227F FLIGHT SIMULATOR DEVELOPMENT	6	126,285	128,436	102,736	62,351 U
234	64237F VARIABLE IN-FLT TEST ACFT (VISTA)	6		381	8,680	14,431 U
235	64411F SPACE SHUTTLE	6	314,349	128,642		U
236	64609F R&M MATURATION/TECH INSERTION	6	7,544	6,578	18,031	23,594 U
237	64707F WEATHER SYSTEMS	6	8,151	7,872	8,444	8,187 U
238	64735F RANGE IMPROVEMENT	6	15,753	52,624	64,616	73,857 U
239	64747F ELECTROMAG RADIATION TEST FACIL	6	6,161	3,290	5,686	6,268 U
240	64755F IMPROVED CAPABILITY FOR RDT+E	6	73,954	45,234	89,518	78,256 U
241	65101F PROJECT AIR FORCE	6	18,598	18,245	18,295	18,858 U
242	65304F ACQ/COMD SPT - TELECOM	6	10,636	6,550	10,987	9,930 U
243	65306F RANCH HAND II EPIDEMIOLOGY STUDY	6	4,922	4,699	7,384	4,901 U
244	65502F SMALL BUSINESS INNOVATION DEV	6	33,885			U
245	65708F NAV/RADAR/SLED TRACK TEST SPT	6	17,984	20,671	25,889	26,652 U

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
246	65806F ACQUISITION AND COMMAND SUPPORT	6	347,297	356,520	285,063	308,865	U
247	65807F TEST AND EVALUATION SPT	6	421,273	426,686	304,151	312,042	U
248	65808F ADV SYS ENGINEERING/PLAN	6	3,032	17,000	23,144	26,212	U
249	65863F RDT&E AIRCRAFT SUPPORT	6	51,510	55,547	62,404	60,961	U
250	65872F PRODUCTIVITY INVESTMENTS	6	2,000	2,932	5,106		U
251	65874F PRODUCT PERFORMANCE AGMT CNTR(PFAC)	6			1,157	1,250	U
252	65894F REAL PROPERTY MAINT -RDT+E	6			140,310	145,115	U
253	65896F BASE OPERATIONS (RDT+E)	6			110,268	113,618	U
254	35110F SATELLITE CONTROL FACILITY	6	93,000	71,259	91,714	114,794	U
255	35119F SPACE BOOSTERS	6	31,356	215,751	138,690	118,310	U
256	35130F CONSOLIDATED SPACE OPERATIONS CENTER	6	63,433	85,187	93,664	66,649	U
257	35160F DEF METEOROLOGICAL SATELLITE PROG	6	39,476	54,874	63,772	60,532	U
258	35171F SPACE SHUTTLE OPERATIONS	6	82,835	75,432	175,867	226,621	U
259	38610F INFORMATION MGMT AUTOMATION PROG	6				673	U
260	71112F INVENTORY CONTROL POINT OPERATIONS	6	1,000	2,924	4,788	4,438	U
261	72207F DEPOT MAINTENANCE (NON-IF)	6			487	6,734	U
262	78011F INDUSTRIAL PREPAREDNESS	6	53,880	62,895	83,573	68,833	U
263	78026F PRODUCT/RELIABLE/AVAIL/MAINTAIN PROG	6	13,415	13,999	31,405	39,198	U

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DEPARTMENT OF THE AIR FORCE
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600 F RESEARCH DEVELOPMENT TEST + EVAL, AF

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	C
264	78031F LOGISTICS C3I SYSTEM	6		8,283			U
265	91215F PRODUCTIVITY INVESTMENTS	6				962	U
266	92998F MANAGEMENT HQS-ADP SUPPORT (AF)	6	5,200				U
267	01004F INTERNATIONAL ACTIVITIES	6	3,932	2,956	2,744	3,128	U
	DEFENSEWIDE MISSION SUPPORT		1,939,247	1,986,440	2,121,282	2,117,930	
TOTAL	RESEARCH DEVELOPMENT TEST + EVAL, AF		13,283,491	13,787,408	17,275,400	17,857,039	

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

SUMMARY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

	FY 1985	FY 1986	FY 1987	FY 1988
SUMMARY RECAP OF RESEARCH CATEGORIES				
RESEARCH				
EXPLORATORY DEVELOPMENT	76,573	165,701	110,421	140,483
ADVANCED DEVELOPMENT	394,936	805,073	829,623	921,057
ENGINEERING DEVELOPMENT	1,598,219	2,996,542	5,201,199	5,874,310
MANAGEMENT AND SUPPORT	6,466	661,057	214,267	225,545
	106,024	109,655	153,835	175,684
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)				
OPERATIONAL SYSTEMS DEVELOPMENT	2,482,218	4,738,028	6,509,345	7,337,079
	1,668,709	1,904,358	1,854,955	1,903,835
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	4,150,927	6,642,386	8,364,300	9,240,914
SUMMARY RECAP OF BUDGET ACTIVITIES				
TECHNOLOGY BASE				
ADVANCED TECHNOLOGY DEVELOPMENT	771,509	970,774	940,044	1,061,540
STRATEGIC PROGRAMS	1,579,088	2,947,536	5,106,388	5,808,683
TACTICAL PROGRAMS	74,641	83,852	72,918	91,683
INTELLIGENCE AND COMMUNICATIONS	2,047	719,177	291,729	295,605
DEFENSEWIDE MISSION SUPPORT	1,614,898	1,781,355	1,736,701	1,790,874
	106,744	139,692	216,510	192,529
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	4,150,927	6,642,386	8,364,300	9,240,914
SUMMARY RECAP OF FYDP PROGRAMS				
GENERAL PURPOSE FORCES				
INTELLIGENCE AND COMMUNICATIONS	2,047	61,212	79,809	73,915
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)	1,663,942	1,836,600	1,761,907	1,813,075
CENTRAL SUPPLY AND MAINTENANCE	2,482,218	4,738,028	6,509,345	7,337,079
SUPPORT OF OTHER NATIONS	1,927	5,000	11,500	15,100
	1,793	1,546	1,739	1,745
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	4,150,927	6,642,386	8,364,300	9,240,914
SUMMARY RECAP OF DEFENSE AGENCIES				
DEFENSE MAPPING AGENCY				
STRATEGIC DEFENSE INITIATIVE ORGANIZATION	201,077	258,285	273,609	323,382
DEPARTMENT OF DEFENSE (OSD AND CASOS)	1,397,299	2,759,222	4,802,566	5,463,312
DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	58,989	829,476	431,850	429,533
NATIONAL SECURITY AGENCY	641,131	739,917	837,880	914,053
DEFENSE NUCLEAR AGENCY	333,237	350,988	347,013	408,149
DEFENSE RECONNAISSANCE SUPPORT PROGRAM	354,178	252,607	147,055	5,406
JOINT CHIEFS OF STAFF	98,676	106,807	119,232	137,415
DEFENSE INTELLIGENCE AGENCY				
JOINT TACTICAL C3 AGENCY				
DEFENSE LOGISTICS AGENCY	24,550	59,129	77,651	71,696
UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES	1,766	31,828	44,550	56,371
		1,748	2,021	2,483
TOTAL RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES	4,150,927	6,642,386	8,364,300	9,240,914

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1986

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
THOUSANDS OF DOLLARS						
1	61101E DEFENSE RESEARCH SCIENCES	1	74,807	87,500	95,900	113,400 U
2	61101W IN-HOUSE LAB INDEPENDENT RESEARCH	1	1,766	1,748	2,021	2,483 U
3	61103D UNIVERSITY RESEARCH INITIATIVES	1		70,473		U
4	61103E UNIVERSITY RESEARCH	1		5,980	12,500	24,600 U
5	62101E TECHNICAL STUDIES	1	1,500	1,500		1,700 U
6	62301E STRATEGIC TECHNOLOGY	1	152,771	239,370	240,620	259,500 U
7	62702E TACTICAL TECHNOLOGY	1	99,042	94,250	114,000	117,000 U
8	62707E PARTICLE BEAM TECHNOLOGY	1	16,400	20,000	15,500	U
9	62708E INTEGRATED CMD/CONTROL TECH	1	46,333	49,000	56,500	64,800 U
10	62712E MATERIALS PROCESSING TECH	1	26,876	29,490	34,660	42,600 U
11	62714E NUCLEAR MONITORING	1	18,158	19,500	19,400	24,400 U
12	62715H DEFENSE NUCLEAR AGENCY	1	333,237	350,988	347,013	408,149 U
13	62716B TECHNOLOGY BASE	1	619	975	1,930	2,908 U
	TECHNOLOGY BASE		771,509	970,774	940,044	1,061,540
14	63220C SURVEILLANCE, ACQSN, TRACK & KILL ASSESSMENT	2	545,950	856,956	1,262,413	1,558,279 U
15	63221C DIRECTED ENERGY WEAPONS	2	377,599	844,401	1,614,955	1,582,037 U
16	63222C KINETIC ENERGY WEAPONS	2	255,950	595,802	991,214	1,217,226 U
17	63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT	2	100,280	227,339	462,206	563,998 U
18	63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY	2	108,400	221,602	454,367	523,654 U
19	63225D JOIN DOD-DOE MUNITIONS TECH DEV	2	4,994	7,787	8,803	9,042 U
20	63226E EXP EVAL OF MAJOR INNOVATIVE TECH	2	173,692	177,179	172,600	168,753 U

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
21	63269E NATIONAL AERO SPACE PLANE TECHNOLOGY PROGRAM	2			60,000	80,000	U
22	63702D SPECIAL OPERATIONS SPECIAL TECHNOLOGY OFFICE	2	6,441	3,925	4,365	4,464	U
23	63703D COUNTER INSURGENCY & SPECIAL TECHNOLOGY	2	4,032	10,732	12,180	11,539	U
24	63706D MICROWAVE/MILLIMETER WAVE MONOLITHIC INT CIR	2			11,172	36,183	U
25	63736D COMPUTER AIDED LOGISTICS SUPPORT	2			14,831	14,749	U
26	63756D DOD SOFTWARE INITIATIVES (STARS)	2			35,220	36,532	U
27	35108K COMMAND AND CONTROL RESEARCH	2	1,750	1,813	2,062	2,227	U
	ADVANCED TECHNOLOGY DEVELOPMENT		1,579,088	2,947,536	5,106,388	5,806,683	
28	63734K ISLAND SUN	3	4,762	14,131	31,853	53,095	U
29	32016K NMCS-WIDE SUPPORT	3	26,658	36,872	10,485	11,897	U
30	32017K WWMCCS ADP-JTSA	3	3,036				U
31	32019K WWMCCS SYSTEM ENGINEER	3	26,408	21,033	19,279	16,149	U
32	33131K MINIMUM ESSENTIAL EMER COMM NETWORK	3	13,777	11,816	11,301	10,542	U
	STRATEGIC PROGRAMS		74,641	83,852	72,918	91,683	
33	64770D JT SURVIVABILITY & TARGET ATTACK RADAR SYSTEM	4		188,138			U
34	64771D COMMON JT TACTICAL INFO DISTRIBUTION SYSTEM	4		187,931	211,930	221,690	U
35	64772D JOINT ADVANCED SYSTEMS	4		281,896			U
36	21135K CINC C2 INITIATIVES	4	2,047	2,083	2,158	2,219	U
37	28045Q C3 INTEROPERABILITY (JOINT TACTICAL C3 AGCY)	4		57,271	68,835	63,473	U

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
						THOUSANDS OF DOLLARS
38	28298Q MANAGEMENT HEADQUARTERS (JTC3A)	4		1,856	8,816	8,223 U
	TACTICAL PROGRAMS		2,047	719,177	291,739	295,605
39	63701B MAP/CHART/GEODESY INV/PROTOTYPE DEV	5	16,119	13,197	15,584	14,759 U
40	64701B MAP/CHART/GEODESY ENGR DEV/TEST	5	6,466	3,092	2,337	3,855 U
41	31011G CRYPTOLOGIC ACTIVITIES	5				
42	31301L GENERAL DEFENSE INTELLIGENCE PROGRAM	5				
43	33126K LONG-HAUL COMMUNICATIONS (DCS)	5	15,659	16,256	38,113	38,839 U
44	33127K SUPPORT OF THE NCS	5	4,579	2,803	3,041	2,447 U
45	33401G COMMUNICATIONS SECURITY	5				
46	35139B DMA EXPLOITATION PROGRAM	5	167,385	233,771	243,629	
47	35159B DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	10,488	7,250	10,129	
48	35159G DEF RECONNAISSANCE ACTIVITIES	5				
49	35159I DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	354,178	252,607	147,055	
50	35167G COMPUTER SECURITY	5				
51	35884L INTEL PLAN AND REVIEW ACTYS	5				
52	35885G TACTICAL CRYPTOLOGIC ACTIVITIES	5				
	INTELLIGENCE AND COMMUNICATIONS		1,614,898	1,781,355	1,736,701	1,790,874
53	63790D NATO RESEARCH AND DEVELOPMENT	6		23,491	49,436	U
54	65104D TECHNICAL SUPPORT TO USDR/E	6	27,489	18,317	20,617	23,407 U
55	65106D GENERAL SUPPORT FOR PA/E	6	1,896	2,339	3,912	5,427 U

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS			
			FY 1985	FY 1986	FY 1987	FY 1988 C
56	65107D SUPPORT TO POLICY	6	4,701	6,192	6,931	10,815 U
57	65108D GENERAL SUPPORT FOR NET ASSESSMENT	6	3,711	3,789	4,415	5,563 U
58	65109D GENERAL SUPPORT FOR FM&P	6	2,406	1,691	2,049	3,030 U
59	65110D CRITICAL TECHNOLOGY	6	2,226	2,623	3,474	4,010 U
60	65112D RAND RESEARCH CENTER FOR OSD & OJCS	6		14,096	16,717	17,324 U
61	65112E TECHNICAL ANALYTICAL SUPPORT	6	14,700			U
62	65113D TAPESTRY	6	300		2,801	3,191 U
63	65114E BLACKLITE	6	2,911	4,000	4,000	4,000 U
64	65115J CINC CONTRACT STUDIES SUPPORT	6			5,000	5,406 U
65	65116D GENERAL SUPPORT TO C3I	6		2,161	3,164	2,821 U
66	65117D FOREIGN MATERIALS ACQUISITION & EXPLOITATION	6			14,831	14,594 U
67	65119D GENERAL SUPPORT FOR A&L	6		2,349	3,263	3,407 U
68	65502E SMALL BUSINESS INNOVATIVE RESEARCH	6	2,800			U
69	65711S CRITICAL TECHNOLOGY ANALYSIS	6			3,000	3,800 U
70	65801S DEFENSE TECHNICAL INFO CENTER	6	16,873	20,328	22,500	28,921 U
71	65802S INFORMATION ANALYSIS CENTERS	6	5,750	6,500	7,550	8,550 U
72	65898C MANAGEMENT HEADQUARTERS SDI	6	9,120	13,122	17,411	18,118 U
73	65898E MGT HQ (RESEARCH/DEVELOPMENT)	6	11,141	12,148	12,200	13,300 U

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	C
74	78011S INDUSTRIAL PREPAREDNESS	6	1,927	5,000	11,500	15,100	U
75	01015D TECHNOLOGY TRANSFER FUNCTIONS	6	793	1,546	1,739	1,745	U
	DEFENSEWIDE MISSION SUPPORT		108,744	139,692	216,510	192,529	
TOTAL	RESEARCH DEVELOPMENT TEST + EVAL, DEF AGENCIES		4,150,927	6,642,386	8,364,300	9,240,914	

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

SUMMARY

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

SUMMARY RECAP OF RESEARCH CATEGORIES

ADVANCED DEVELOPMENT
MANAGEMENT AND SUPPORT
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE

SUMMARY RECAP OF BUDGET ACTIVITIES

DEFENSEWIDE MISSION SUPPORT
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE

SUMMARY RECAP OF FYDP PROGRAMS

RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)
TOTAL DIRECTOR OF TEST + EVALUATION, DEFENSE

	FY 1985	FY 1986	FY 1987	FY 1988
	-----	-----	-----	-----
	59,000	25,000	47,991	97,878
	-----	93,500	93,809	-----
	59,000	118,500	141,800	97,878
	-----	-----	-----	-----
	59,000	118,500	141,800	97,878
	-----	-----	-----	-----
	59,000	118,500	141,800	97,878
	-----	-----	-----	-----
	59,000	118,500	141,800	97,878
	-----	-----	-----	-----
	59,000	118,500	141,800	97,878
	-----	-----	-----	-----
	59,000	118,500	141,800	97,878
	-----	-----	-----	-----
	59,000	118,500	141,800	97,878
	-----	-----	-----	-----

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0450 D DIRECTOR OF TEST + EVALUATION, DEFENSE

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	C
1	63790D NATO RESEARCH AND DEVELOPMENT	6		25,000	47,991		U
2	65111D FOREIGN WEAPONS EVALUATION	6	12,000	17,010	18,010	18,010	U
3	65804D DEVELOPMENT TEST AND EVALUATION DEFENSE	6	47,000	76,490	75,799	79,868	U
	DEFENSEWIDE MISSION SUPPORT		59,000	118,500	141,800	97,878	
TOTAL	DIRECTOR OF TEST + EVALUATION, DEFENSE		59,000	118,500	141,800	97,878	

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1986

SUMMARY

THOUSANDS OF DOLLARS

	FY 1985	FY 1986	FY 1987	FY 1988
SUMMARY RECAP OF RESEARCH CATEGORIES				
MANAGEMENT AND SUPPORT			11,300	11,735
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)			11,300	11,735
TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION			11,300	11,735
SUMMARY RECAP OF BUDGET ACTIVITIES				
DEFENSEWIDE MISSION SUPPORT			11,300	11,735
TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION			11,300	11,735
SUMMARY RECAP OF FYDP PROGRAMS				
RESEARCH AND DEVELOPMENT (FYDP PROGRAM 6)			11,300	11,735
TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION			11,300	11,735

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DEFENSE AGENCIES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0460 D DIRECTOR OF OPERATIONAL TEST + EVALUATION

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C	E
THOUSANDS OF DOLLARS							\$
1	65118D OPERATIONAL TEST AND EVALUATION DEFENSE	6			11,300		11,735 U
TOTAL DIRECTOR OF OPERATIONAL TEST + EVALUATION							
							11,735

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DEFENSE MAPPING AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
13	62716B TECHNOLOGY BASE	1	619	975	1,930	2,908 U
39	63701B MAP/CHART/GEODESY INV/PROTOTYPE DEV	5	16,119	13,197	15,584	14,759 U
40	64701B MAP/CHART/GEODESY ENGR DEV/TEST	5	6,466	3,092	2,337	3,855 U
46	35139B DMA EXPLOITATION PROGRAM	5	167,385	233,771	243,629	
47	35159B DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	10,468	7,250	10,129	
	INTELLIGENCE AND COMMUNICATIONS		200,458	257,310	271,679	320,474
TOTAL	DEFENSE MAPPING AGENCY		201,077	258,285	273,609	323,382

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STRATEGIC DEFENSE INITIATIVE ORGANIZATION
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
14	63220C SURVEILLANCE, ACQSN, TRACK & KILL ASSESSMENT	2	545,950	856,956	1,262,413	1,558,279	U
15	63221C DIRECTED ENERGY WEAPONS	2	377,599	844,401	1,614,955	1,582,037	U
16	63222C KINETIC ENERGY WEAPONS	2	255,950	595,802	991,214	1,217,226	U
17	63223C SYSTEMS CONCEPTS AND BATTLE MANAGEMENT	2	100,280	227,339	462,206	563,998	U
18	63224C SURVIVABILITY, LETHALITY & KEY SPT TECHNOLOGY	2	108,400	221,602	454,367	523,654	U
	ADVANCED TECHNOLOGY DEVELOPMENT		1,388,179	2,746,100	4,785,155	5,445,194	
72	65898C MANAGEMENT HEADQUARTERS SDI	6	9,120	13,122	17,411	18,118	U
TOTAL	STRATEGIC DEFENSE INITIATIVE ORGANIZATION		1,397,299	2,759,222	4,802,566	5,463,312	

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DEPARTMENT OF DEFENSE (OSD AND OASDS)
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	U
							THOUSANDS OF DOLLARS
							-----S
							E
							C
3	61103D UNIVERSITY RESEARCH INITIATIVES	1		70,473			U
19	63225D JOIN DOD-DOE MUNITIONS TECH DEV	2	4,994	7,787	8,803		9,042 U
22	63702D SPECIAL OPERATIONS SPECIAL TECHNOLOGY OFFICE	2	6,441	3,925	4,365		4,464 U
23	63703D COUNTER INSURGENCY & SPECIAL TECHNOLOGY	2	4,032	10,732	12,180		11,539 U
24	63706D MICROWAVE/MILLIMETER WAVE MONOLITHIC INT CIR	2			11,172		36,183 U
25	63736D COMPUTER AIDED LOGISTICS SUPPORT	2			14,831		14,749 U
26	63756D DOD SOFTWARE INITIATIVES (STARS)	2			35,220		36,532 U
	ADVANCED TECHNOLOGY DEVELOPMENT		15,467	22,444	86,571		112,509
33	64770D JT SURVIVABILITY & TARGET ATTACK RADAR SYSTEM	4		188,138			U
34	64771D COMMON JT TACTICAL INFO DISTRIBUTION SYSTEM	4		187,931	211,930		221,690 U
35	64772D JOINT ADVANCED SYSTEMS	4		281,896			U
	TACTICAL PROGRAMS			657,965	211,930		221,690
53	63790D NATO RESEARCH AND DEVELOPMENT	6		23,491	49,436		U
54	65104D TECHNICAL SUPPORT TO USDR/E	6	27,489	18,317	20,617		23,407 U
55	65106D GENERAL SUPPORT FOR PA/E	6	1,896	2,339	3,912		5,427 U
56	65107D SUPPORT TO POLICY	6	4,701	6,192	6,931		10,815 U
57	65108D GENERAL SUPPORT FOR NET ASSESSMENT	6	3,711	3,789	4,415		5,563 U
58	65109D GENERAL SUPPORT FOR FM&P	6	2,406	1,691	2,049		3,030 U
59	65110D CRITICAL TECHNOLOGY	6	2,226	2,623	3,474		4,010 U
60	65112D RAND RESEARCH CENTER FOR OSD & OJCS	6		14,096	16,717		17,324 U

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DEPARTMENT OF DEFENSE (OSD AND OASDS)
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	U C E
62	65113D TAPESTRY	6	300		2,801	3,191	U
65	65116D GENERAL SUPPORT TO C31	6		2,161	3,164	2,821	U
66	65117D FOREIGN MATERIALS ACQUISITION & EXPLOITATION	6			14,831	14,594	U
67	65119D GENERAL SUPPORT FOR A&L	6		2,349	3,263	3,407	U
75	01015D TECHNOLOGY TRANSFER FUNCTIONS	6	793	1,546	1,739	1,745	U
	DEFENSEWIDE MISSION SUPPORT		43,522	78,594	133,349	95,334	

TOTAL DEPARTMENT OF DEFENSE (OSD AND OASDS)

58,989	829,476	431,850	429,533
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DEFENSE ADVANCED RESEARCH PROJECTS AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM
ELEMENT
NO NUMBER

ITEM NOMENCLATURE

ACT

FY 1985

FY 1986

FY 1987

FY 1988 C

THOUSANDS OF DOLLARS

S

E

C

1	61101E	DEFENSE RESEARCH SCIENCES	1	74,807	87,500	95,900	113,400	U
4	61103E	UNIVERSITY RESEARCH	1		5,980	12,500	24,600	U
5	62101E	TECHNICAL STUDIES	1	1,500	1,500		1,700	U
6	62301E	STRATEGIC TECHNOLOGY	1	152,771	239,370	240,620	259,500	U
7	62702E	TACTICAL TECHNOLOGY	1	99,042	94,250	114,000	117,000	U
8	62707E	PARTICLE BEAM TECHNOLOGY	1	16,400	20,000	15,500		U
9	62708E	INTEGRATED CMD/CONTROL TECH	1	46,333	49,000	56,500	64,800	U
10	62712E	MATERIALS PROCESSING TECH	1	26,876	29,490	34,660	42,600	U
11	62714E	NUCLEAR MONITORING	1	18,158	19,500	19,400	24,400	U
		TECHNOLOGY BASE		435,887	546,590	589,080	648,000	
20	63226E	EXP EVAL OF MAJOR INNOVATIVE TECH	2	173,692	177,179	172,600	168,753	U
21	63269E	NATIONAL AERO SPACE PLANE TECHNOLOGY PROGRAM	2			60,000	80,000	U
		ADVANCED TECHNOLOGY DEVELOPMENT		173,692	177,179	232,600	248,753	
61	65112E	TECHNICAL ANALYTICAL SUPPORT	6	14,700				U
63	65114E	BLACKLITE	6	2,911	4,000	4,000	4,000	U
68	65502E	SMALL BUSINESS INNOVATIVE RESEARCH	6	2,800				U

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DEFENSE ADVANCED RESEARCH PROJECTS AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	U
73	65898E MGT HQ (RESEARCH/DEVELOPMENT)	6	11,141	12,148	12,200	13,300	U
	DEFENSEWIDE MISSION SUPPORT		31,552	16,148	16,200	17,300	

TOTAL DEFENSE ADVANCED RESEARCH PROJECTS AGENCY

641,131	739,917	837,880	914,053
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EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
						THOUSANDS OF DOLLARS
						\$ E

ITEM NOMENCLATURE

ACT

FY 1986

FY 1987

FY 1988 C

41 31011G CRYPTOLOGIC ACTIVITIES

10

45 33401G COMMUNICATIONS SECURITY

10

48 35159G DEF RECONNAISSANCE ACTIVITIES

10

50 35167G COMPUTER SECURITY

10

52 35885G TACTICAL CRYPTOLOGIC ACTIVITIES

10

INTELLIGENCE AND COMMUNICATIONS

TOTAL NATIONAL SECURITY AGENCY

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DEFENSE NUCLEAR AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				E
			FY 1985	FY 1986	FY 1987	FY 1988	
12	62715H DEFENSE NUCLEAR AGENCY	1	333,237	350,988	347,013	408,149	U
TOTAL	DEFENSE NUCLEAR AGENCY		333,237	350,988	347,013	408,149	

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DEFENSE RECONNAISSANCE SUPPORT PROGRAM
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

DATE: 04 FEB 1986

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

THOUSANDS OF DOLLARS

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988 C
49	351591 DEFENSE RECONNAISSANCE SUPPORT ACTIVITIES	5	354,178	252,607	147,055	
			354,178	252,607	147,055	
	TOTAL DEFENSE RECONNAISSANCE SUPPORT PROGRAM					

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JOINT CHIEFS OF STAFF
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS	S E C
64	65115J CINC CONTRACT STUDIES SUPPORT	6			5,000		5,406	U
TOTAL JOINT CHIEFS OF STAFF					5,000		5,406	

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DEFENSE COMMUNICATIONS AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

LINE ELEMENT NO	PROGRAM ELEMENT NUMBER	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				FY 1988 C
				FY 1985	FY 1986	FY 1987	FY 1988 U	
27	35108K	COMMAND AND CONTROL RESEARCH	2	1,750	1,813	2,062	2,227	U
28	63734K	ISLAND SUN	3	4,762	14,131	31,853	53,095	U
29	32016K	NMCS-WIDE SUPPORT	3	26,658	36,872	10,485	11,897	U
30	32017K	WMCCS ADP-JTSA	3	3,036				U
31	32019K	WMCCS SYSTEM ENGINEER	3	26,408	21,033	19,279	16,149	U
32	33131K	MINIMUM ESSENTIAL EMER COMM NETWORK	3	13,777	11,816	11,301	10,542	U
		STRATEGIC PROGRAMS		74,641	83,852	72,918	91,683	
36	21135K	CINC C2 INITIATIVES	4	2,047	2,083	2,158	2,219	U
43	33126K	LONG-HAUL COMMUNICATIONS (DCS)	5	15,659	16,256	39,113	38,839	U
44	33127K	SUPPORT OF THE NCS	5	4,579	2,803	3,041	2,447	U
		INTELLIGENCE AND COMMUNICATIONS		20,238	19,059	42,154	41,286	
TOTAL		DEFENSE COMMUNICATIONS AGENCY		98,676	106,807	119,292	137,415	

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DEFENSE INTELLIGENCE AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO NUMBER	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS			
			FY 1985	FY 1986	FY 1987	FY 1988 C
42	31301L GENERAL DEFENSE INTELLIGENCE PROGRAM	5				
51	35884L INTEL PLAN AND REVIEW ACTYS	5				
	INTELLIGENCE AND COMMUNICATIONS					

TOTAL DEFENSE INTELLIGENCE AGENCY

UNCLASSIFIED

JOINT TACTICAL C3 AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS
37	280450 C3 INTEROPERABILITY (JOINT TACTICAL C3 AGCY)	4		57,271	68,835	63,473	U
38	282980 MANAGEMENT HEADQUARTERS (JTC3A)	4		1,858	8,816	8,223	U
	TACTICAL PROGRAMS			59,129	77,651	71,696	
TOTAL	JOINT TACTICAL C3 AGENCY			59,129	77,651	71,696	

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DEFENSE LOGISTICS AGENCY
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	FY 1985	FY 1986	FY 1987	FY 1988	THOUSANDS OF DOLLARS	S E C
69	65711S CRITICAL TECHNOLOGY ANALYSIS	6			3,000			3,800 U
70	65801S DEFENSE TECHNICAL INFO CENTER	6	16,873	20,328	22,500			28,921 U
71	65802S INFORMATION ANALYSIS CENTERS	6	5,750	6,500	7,550			8,550 U
74	78011S INDUSTRIAL PREPAREDNESS	6	1,927	5,000	11,500			15,100 U
	DEFENSEWIDE MISSION SUPPORT		24,550	31,828	44,550			56,371
TOTAL	DEFENSE LOGISTICS AGENCY		24,550	31,828	44,550			56,371

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UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES
FY 1987 R D T & E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400 D RESEARCH DEVELOPMENT TEST & EVAL DEF AGENCIES

DATE: 04 FEB 1986

PROGRAM LINE ELEMENT NO	ITEM NOMENCLATURE	ACT	THOUSANDS OF DOLLARS				S E C
			FY 1985	FY 1986	FY 1987	FY 1988	
2	61101W IN-HOUSE LAB INDEPENDENT RESEARCH	1	1,766	1,748	2,021	2,483	U
TOTAL UNIFORMED SERVICES UNIVERSITY HEALTH SCIENCES			1,766	1,748	2,021	2,483	

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